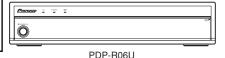
# Pioneer sound.vision.soul

# Service Manual



ORDER NO. ARP3279

**MEDIA RECEIVER** 

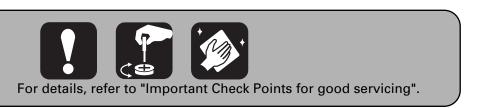
# PDP-R06U PRO-R06U

# THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

Model	Туре	Power Requirement	Remarks
PDP-R06U	KUCXJ	AC 120V	
PRO-R06U	KUCXJ	AC 120V	

# This service manual should be used together with the following manual(s).

Model No.	Order No.	Remarks
PDP-R06U, PRO-R06U	ARP3280	SCHEMATIC DIAGRAM, PCB CONNECTION DIAGRAM



PIONEER CORPORATION 4-1, Meguro 1-chome, Meguro-ku, Tokyo 153-8654, Japan PIONEER ELECTRONICS (USA) INC. P.O. Box 1760, Long Beach, CA 90801-1760, U.S.A. PIONEER EUROPE NV Haven 1087, Keetberglaan 1, 9120 Melsele, Belgium PIONEER ELECTRONICS ASIACENTRE PTE. LTD. 253 Alexandra Road, #04-01, Singapore 159936 © PIONEER CORPORATION 2005

# SAFETY INFORMATION



This service manual is intended for qualified service technicians; it is not meant for the casual do-ityourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual.

Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

#### WARNING

This product contains lead in solder and certain electrical parts contain chemicals which are known to the state of California to cause cancer, birth defects or other reproductive harm.

Health & Safety Code Section 25249.6 - Proposition 65

#### NOTICE

(FOR CANADIAN MODEL ONLY)

Fuse symbols - (fast operating fuse) and/or - (slow operating fuse) on PCB indicate that replacement parts must be of identical designation.

#### **REMARQUE**

(POUR MODÈLE CANADIEN SEULEMENT)

Les symboles de fusible - (fusible de type rapide) et/ou - (fusible de type lent) sur CCI indiquent que les pièces de remplacement doivent avoir la même désignation.

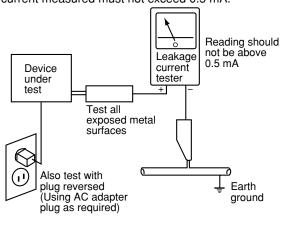
## (FOR USA MODEL ONLY)

# 1. SAFETY PRECAUTIONS

The following check should be performed for the continued protection of the customer and service technician.

#### LEAKAGE CURRENT CHECK

Measure leakage current to a known earth ground (water pipe, conduit, etc.) by connecting a leakage current tester such as Simpson Model 229-2 or equivalent between the earth ground and all exposed metal parts of the appliance (input/output terminals, screwheads, metal overlays, control shaft, etc.). Plug the AC line cord of the appliance directly into a 120V AC 60 Hz outlet and turn the AC power switch on. Any current measured must not exceed 0.5 mA.



AC Leakage Test

ANY MEASUREMENTS NOT WITHIN THE LIMITS **OUTLINED ABOVE ARE INDICATIVE OF A POTENTIAL** SHOCK HAZARD AND MUST BE CORRECTED BEFORE RETURNING THE APPLIANCE TO THE CUSTOMER.

# 2. PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in the appliance have special safety related characteristics. These are often not evident from visual inspection nor the protection afforded by them necessarily can be obtained by using replacement components rated for voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this Service Manual.

Electrical components having such features are identified by marking with a  $\triangle$  on the schematics and on the parts list in this Service Manual.

The use of a substitute replacement component which does not have the same safety characteristics as the PIONEER recommended replacement one, shown in the parts list in this Service Manual, may create shock, fire, or other hazards.

Product Safety is continuously under review and new instructions are issued from time to time. For the latest information, always consult the current PIONEER Service Manual. A subscription to, or additional copies of, PIONEER Service Manual may be obtained at a nominal charge from PIONEER.

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In this manual, procedures that must be performed during repairs are marked with the below symbol.

Please be sure to confirm and follow these procedures.

#### Product safety



Please conform to product regulations (such as safety and radiation regulations), and maintain a safe servicing environment by following the safety instructions described in this manual.

① Use specified parts for repair.

Use genuine parts. Be sure to use important parts for safety.

2 Do not perform modifications without proper instructions.

Please follow the specified safety methods when modification(addition/change of parts) is required due to interferences such as radio/TV interference and foreign noise.

③ Make sure the soldering of repaired locations is properly performed.

When you solder while repairing, please be sure that there are no cold solder and other debris. Soldering should be finished with the proper quantity. (Refer to the example)

4 Make sure the screws are tightly fastened.

Please be sure that all screws are fastened, and that there are no loose screws.

5 Make sure each connectors are correctly inserted.

Please be sure that all connectors are inserted, and that there are no imperfect insertion.

6 Make sure the wiring cables are set to their original state.

Please replace the wiring and cables to the original state after repairs. In addition, be sure that there are no pinched wires, etc.

Make sure screws and soldering scraps do not remain inside the product.

Please check that neither solder debris nor screws remain inside the product.

® There should be no semi-broken wires, scratches, melting, etc. on the coating of the power cord.

Damaged power cords may lead to fire accidents, so please be sure that there are no damages. If you find a damaged power cord, please exchange it with a suitable one.

9 There should be no spark traces or similar marks on the power plug.

When spark traces or similar marks are found on the power supply plug, please check the connection and advise on secure connections and suitable usage. Please exchange the power cord if necessary.

10 Safe environment should be secured during servicing.

When you perform repairs, please pay attention to static electricity, furniture, household articles, etc. in order to prevent injuries. Please pay attention to your surroundings and repair safely.

#### 2. Adjustments



To keep the original performance of the products, optimum adjustments and confirmation of characteristics within specification. Adjustments should be performed in accordance with the procedures/instructions described in this manual.

### 3. Lubricants, Glues, and Replacement parts



Use grease and adhesives that are equal to the specified substance. Make sure the proper amount is applied.

# 4. Cleaning



For parts that require cleaning, such as optical pickups, tape deck heads, lenses and mirrors used in projection monitors, proper cleaning should be performed to restore their performances.

## 5. Shipping mode and Shipping screws

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To protect products from damages or failures during transit, the shipping mode should be set or the shipping screws should be installed before shipment. Please be sure to follow this method especially if it is specified in this manual.

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PDP-R06U

# CONTENTS

	1. SPECIFICATIONS	!
	2. EXPLODED VIEWS AND PARTS LIST	
	2.1 PACKING SECTION	
Α	2.2 EXTERIOR SECTION	
	2.3 FRONT PANEL SECTION	
	3. BLOCK DIAGRAM	
	3.1 OVERALL BLOCK DIAGRAM	
	3.2 MR DTB ASSY	
	3.3 POWER SUPPLY UNIT	
-	3.4 POWER SUPPLY SIGNAL ROUTE	
	3.5 PC CARD MODULE	
	3.6 VOLTAGES	
	5. PCB PARTS LIST	
	6. ADJUSTMENT	
В	6.1 POSSIBLE CASES WHERE READJUSTMENT IS REQUIRED	
	6.2 USING RS-232C COMMANDS	
	6.3 ADJUSTMENT ITEMS	34
	6.4 TRAP SWITCH	3
	6.5 SERVICING USING ONLY THE MEDIA RECEIVER	38
	6.6 SERVICE FACTORY MODE	
	6.7 LIST OF RS-232C COMMANDS	5
	6.8 OUTLINE OF COMMANDS	5
	7. GENERAL INFORMATION	60
	7.1 DIAGNOSIS	60
	7.1.1 TROUBLESHOOTING	60
	7.1.2 DISASSEMBLY	69
С	7.2 EXPLANATION	7
	7.2.1 PROCESSING IN ABNORMALITY	7
	7.2.2 POWER ON SEQUENCE	
	7.3 PARTS	7
	7.3.1 IC	7
	O DANIEL FACILITIES	10

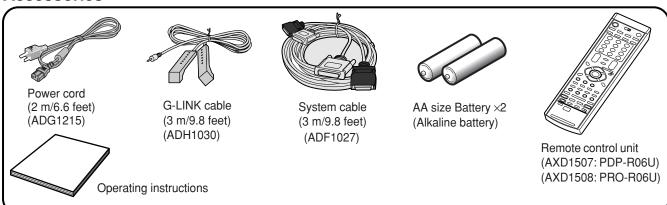
# 1. SPECIFICATIONS

Item			Media Receiver, Model: PDP-R06U		
Reception Sy	/stem (Digital)		ATSC Digital TV system		
	Circuit type		8VSB/64QAM/256QAM/QPSK demodulation		
	Tuner	VHF/UHF	VHF Ch. 2-13 UHF Ch. 14-69		
		CATV	Ch. 2-135		
	Audio format		Dolby Digital		
Reception Sy	/stem (Analog)		American TV standard NTSC system		
	Circuit type		Video signal detection PLL full synchronous detection, PLL digital synthesizer system		
	Tuner	VHF/UHF	VHF Ch. 2-13 UHF Ch. 14-69		
		CATV	ANT/CABLE A IN Ch. 1-135 ANT B IN Ch. 1-125		
	Audio multiplex		BTSC system		
Terminals	Rear	ANT/CABLE A IN	75 $\Omega$ UNBAL, F Type for DTV/VHF/UHF/CATV in		
		ANT B IN	75 Ω UNBAL, F Type for VHF/UHF/CATV in Loop out		
		i.LINK (TS)	S400 (2)		
		INPUT 1	COMPONENT VIDEO in, S-VIDEO in, VIDEO in, AUDIO in, HDMI in*		
		INPUT 2	S-VIDEO in, VIDEO in, AUDIO in		
		INPUT 3	COMPONENT VIDEO in, AUDIO in, HDMI in *		
		MONITOR OUT	VIDEO out, AUDIO out		
		Digital Audio Output	Optical (1)		
		G-LINK	1		
		CONTROL IN	1		
		CONTROL OUT	1		
		SUB WOOFER OUTPUT	Variable		
		Cable CARD	Point of Deployment		
	Front	INPUT 4	COMPONENT VIDEO in, S-VIDEO in, VIDEO in, AUDIO in (Audio input is shared with PC INPUT.)		
		PC	Analog RGB in, AUDIO in		
On-screen display languages			English/French/Spanish		
Power Requi	rement		120 V AC, 60 Hz, 35 W (26 W Standby)		
Dimensions			420 (W) × 90 (H) × 299 (D) mm (16 9/16 (W) × 3 9/16 (H) × 11 13/16 (D) inches)		
Weight			4.5 kg (9.9 lbs.)		

\*: This conforms to HDMI1.1 and HDCP1.1. HDMI (High Definition Multimedia Interface) is a digital interface that handles both video and audio using a single cable. HDCP (High-bandwidth Digital Content Protection) is a technology used to protect copyrighted digital contents that use the Digital Visual Interface (DVI).

• Design and specifications are subject to change without notice.

# **Accessories**



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PDP-R06U

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# 2. EXPLODED VIEWS AND PARTS LIST

NOTES: ● Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.

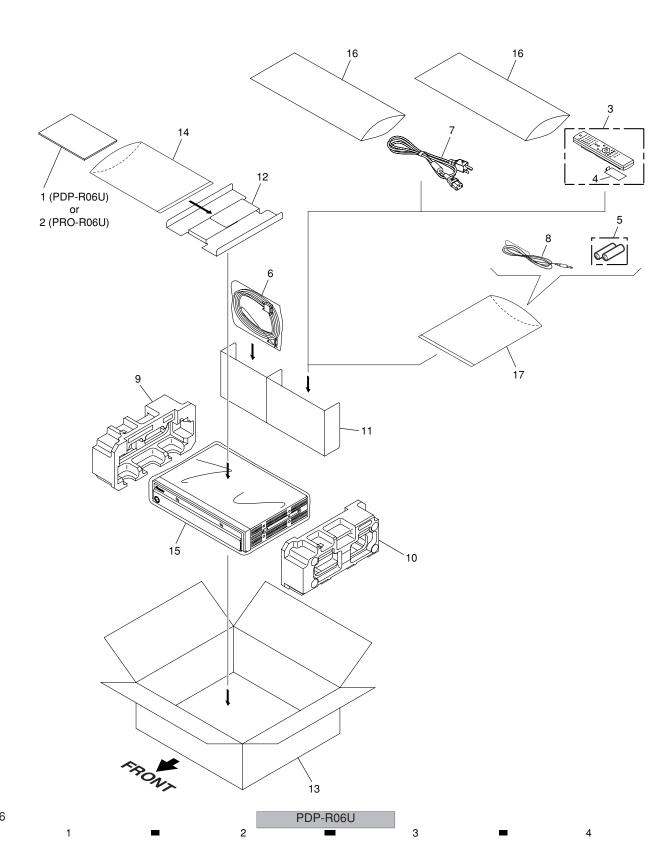
- The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- Screws adjacent to ▼ mark on product are used for disassembly.
- For the applying amount of lubricants or glue, follow the instructions in this manual. (In the case of no amount instructions, apply as you think it appropriate.)

# 2.1 PACKING SECTION

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# (1) PACKING SECTION PARTS LIST

Mark	<u>No.</u>	<u>Description</u>	Part No.
	1	Operating Instructions (English, French, Spanish)	See Contrast table (2)
	2	Operating Instructions (English)	See Contrast table (2)
	3	Remote Control Unit	See Contrast table (2)
	4	Battery Cover	AZA7424
NSP	5	Dry Cell Battery (R6P, AA)	VEM1023
	6	System Cable (3m)	ADF1027
<u> </u>	7	Power Cord	ADG1215
	8	G-LINK Cable (3m)	ADH1030
	9	Pad L	AHA2447
	10	Pad R	AHA2448
	11	Accessory Carton M	AHD3423
	12	Manual Case	AHD3428
	13	Carton	See Contrast table (2)
NSP	14	Catalogue Bag	AHG1340
	15	Laminate Sheet	AHG1350
	16	Air Cap Bag	AHG1351
NSP	17	Catalogue Bag	AHG1374

(2) CONTRAST TABLE PDP-R06U/KUCXJ and PRO-R06U/KUCXJ are constructed the same except for the following:

Mark	No.	Symbol and Description	PDP-R06U/KUCXJ	PRO-R06U/KUCXJ
	1	Operating Instructions (English, French, Spanish)	ARE1399	Not used
	2	Operating Instructions (English)	Not used	ARB1567
	3	Remote Control Unit	AXD1507	AXD1508
	13	Carton U	AHD3448	Not used
	13	Carton UE	Not used	AHD3447

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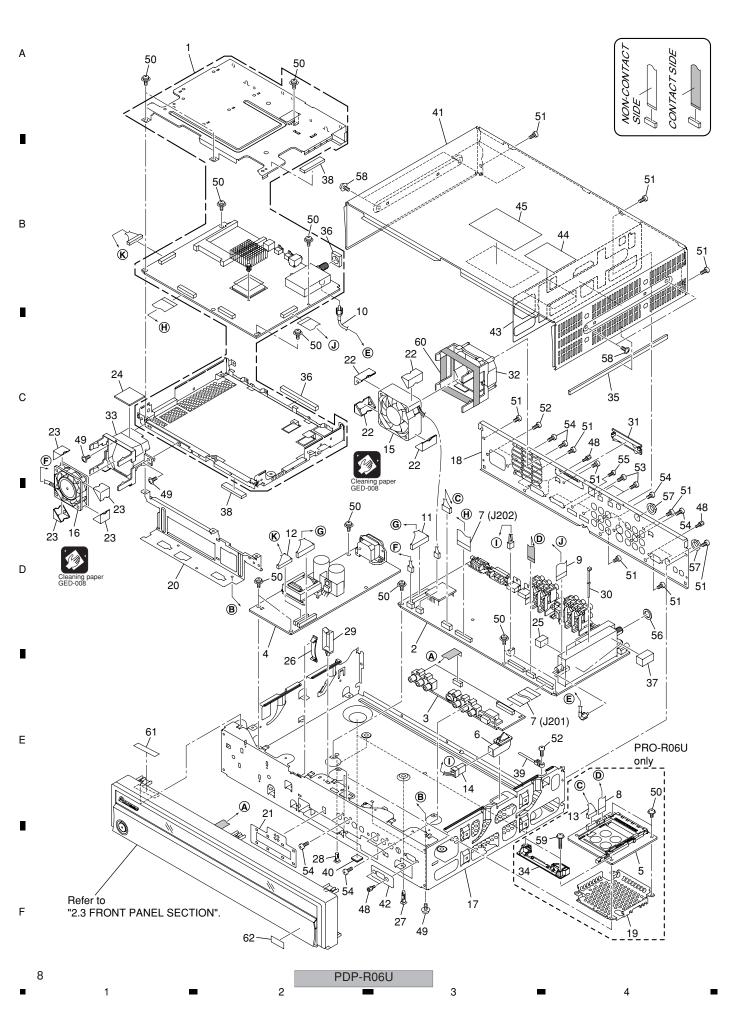
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# 2.2 EXTERIOR SECTION



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` '		RIOR SECTION PARTS		Maula Na	Description	Down No.	
<u>Mark</u>	No.	<u>Description</u>	Part No.	Mark No.	<u>Description</u>	Part No.	
<u> </u>	1	MR DTB Assy	AWE1305	46	Label	See Contrast table (2)	
<u> </u>	2	MR MAIN Assy	See Contrast table (2)	47	••••		,
	3	FRONT Assy	See Contrast table (2)	48	Hex Head Screw	BBA1051	
<u> </u>	4	POWER SUPPLY Unit	AXY1113	49	Screw	ABZ30P060FTC	
	5	PC CARD Module	See Contrast table (2)	50	Screw	BBB30P080FTC	
	6	Power Switch (S1)	ASG1089	51	Screw	BBZ30P060FTB	
	7	Flexible Cable (J201)(J202)	ADD1311	52	Screw	BBZ30P100FTC	
	8	Flexible Cable (J206)	See Contrast table (2)	53	Screw	BMZ30P060FTC	
	9	Flexible Cable (J205)	ADD1317	54	Screw	BPZ30P080FTB	
	10	Antenna Cable (0.19m)	ADE1194	55	Screw	PMZ26P060FTB	
	11	16P Housing Wire (J101)	ADX3140	56	Washer	ABE1080	
	12	12P Housing Wire (J102)	ADX3141	57	Nut	BBN1005	
	13	6P Housing Wire (J103)	See Contrast table (2)	58	Screw	See Contrast table (2)	
	14	3P Housing Wire (J106)	ADX3143	59	Screw	See Contrast table (2)	
<u> </u>	15	Fan Motor (60 x 25L)	AXM1047	60	TERAOKA No.570F 16mm(W)	GYH1001	
<u> </u>	16	Fan Motor (52 x 15L)	AXM1051	61	SW Caution	See Contrast table (2)	
	17	Base Chassis	ANA1872	62	TV Guide Label	AAX3210	
	18	Terminal Panel	See Contrast table (2)				
<u> </u>	19	PC Shield	See Contrast table (2)				
	20	Frame B	ANG2781				
<u> </u>	21	Shield Plate	ANG2838				
	22	Floating Rubber 60	AEB1410				
	23	Floating Rubber 50	AEB1418				
	24	Cushion Rubber	AEB1428				
	25	Cushion Rubber	AEB1433				
	26	Flat Clamp	AEC1858				
	27	Circuit Board Spacer	AEC1969				
	28	Circuit Board Spacer	AEC2028				
	29	Re-used Wire Saddle	AEC2038				
	30	Cable Tie	AEC2078				-
	31	Rear Cover	AMR3425				
	32	Fan Holder 60	AMR3451				
	33	Fan Holder 50	AMR3456				
	34	PC Guide	See Contrast table (2)				
<u> </u>	35	Gasket S	ANK1784				
	36	Gasket	ANK1788				
	37	Gasket	ANK1791				
	38	Gasket	ANK1793				
	39	Jumper Band	BEC1228				
	40	Rubber Foot	VEB1349				
	41	Metal Bonnet	See Contrast table (2)				
	42	Cover Sheet	See Contrast table (2)				
	43	Side Cover Sheet	See Contrast table (2)				
	11	Caution Label	See Contract table (2)				

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PDP-R06U 8

43 Side Cover Sheet Caution Label

Caution Label

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See Contrast table (2) See Contrast table (2)

(2) CONTRAST TABLE PDP-R06U/KUCXJ and PRO-R06U/KUCXJ are constructed the same except for the following:

	Mark	No.	Symbol and Description	PDP-R06U/KUCXJ	PRO-R06U/KUCXJ
Α	<u> </u>	2	MR MAIN Assy	AWV2225	AWV2223
		3	FRONT Assy	AWW1046	AWW1044
		5	PC CARD Module	Not used	AXY1073
		8	Flexible Cable (J206)	Not used	ADD1313
		13	6P Housing Wire (J103)	Not used	ADX3142
		18	Terminal Panel U	ANC2383	Not used
		18	Terminal Panel UE	Not used	ANC2376
	<u> </u>	19	PC Shield	Not used	ANG2578
		34	PC Guide	Not used	AMR3468
		41	Metal Bonnet	ANE1653	ANE1652
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		42	Cover Sheet	Not used	AAK2850
		43	Side Cover Sheet	Not used	AAK2851
		44	Caution Label (U)	AAX3282	Not used
		44	Caution Label (UE)	Not used	AAX3279
		45	Caution Label	Not used	AAX3239
		46	Label	Not used	AAX3247
		58	Screw	ABZ30P060FTC	ABZ30P060FTB
		59	Screw	Not used	ABZ30P180FTC
		61	Power SW Caution U	AAX3249	Not used
С		61	Power SW Caution UE	Not used	AAX3280

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PDP-R06U

# (1) FRONT PANEL SECTION PARTS LIST

Mark	No.	<u>Description</u>	Part No.
	1	LED Assy	AWW1045
	2	Flexible Cable (J207)	ADD1314
<u> </u>	3	Earth Metal	BNG1336
	4	Front Panel Assy	See Contrast table (2)
	5	Magnet Catcher	See Contrast table (2)
	6	Magnet Holder Assy	AEC1077
	7	Gear Damper	AXA1019
	8	Screw (2 x 3.5)	See Contrast table (2)
	9	Screw	BPZ30P080FTB
	10	Indicator Panel	See Contrast table (2)
	11	Door	See Contrast table (2)
	12	Front Panel	See Contrast table (2)
	13	Escutcheon Ring	See Contrast table (2)
NSF	14	Power Button	See Contrast table (2)
NSF	<sup>2</sup> 15	Operation Button	AAD4140
	16	Sealing Sheet	See Contrast table (2)
	17	Pioneer Name Plate	See Contrast table (2)
	18	Door Cushion	See Contrast table (2)
	19	Door Cushion S	See Contrast table (2)
NSF	20	LED Lens	AMR3452
	21	Rubber Foot	VEB1349
	22	Screw	BPZ30P080FTB

(2) CONTRAST TABLE
PDP-R06U/KUCXJ and PRO-R06U/KUCXJ are constructed the same except for the following:

Mark	No.	Symbol and Description	PDP-R06U/KUCXJ	PRO-R06U/KUCXJ
	4	Front Panel Assy U	AXG1036	Not used
	4	Front Panel Assy UE	Not used	AXG1031
	5	Magnet Catcher	ANG2820	ANG2821
	8	Screw (2 x 3.5)	ABA1329	ABA1330
	10	Indicator Panel (U)	AAK2847	Not used
	10	Indicator Panel (UE)	Not used	AAK2842
	11	Door (U)	AAN1484	Not used
	11	Door (UE)	Not used	AAN1480
	12	Front Panel (U)	AMB2872	Not used
	12	Front Panel (UE)	Not used	AMB2864
	13	Escutcheon Ring	AAD4134	Not used
	13	Escutcheon Ring (UE)	Not used	AAD4138
NSP	14	Power Button	AAD4135	Not used
NSP	14	Power Button (UE)	Not used	AAD4141
	16	Sealing Sheet (U)	AAL2674	Not used
	16	Sealing Sheet UE	Not used	AAL2666
	17	Pioneer Name Plate	AAM1107	VAM1109
	18	Door Cushion	AEB1412	Not used
	18	Door Cushion (UE)	Not used	AEB1419
	19	Door Cushion S	AEB1425	Not used
	19	Door Cushion S (UE)	Not used	AEB1426

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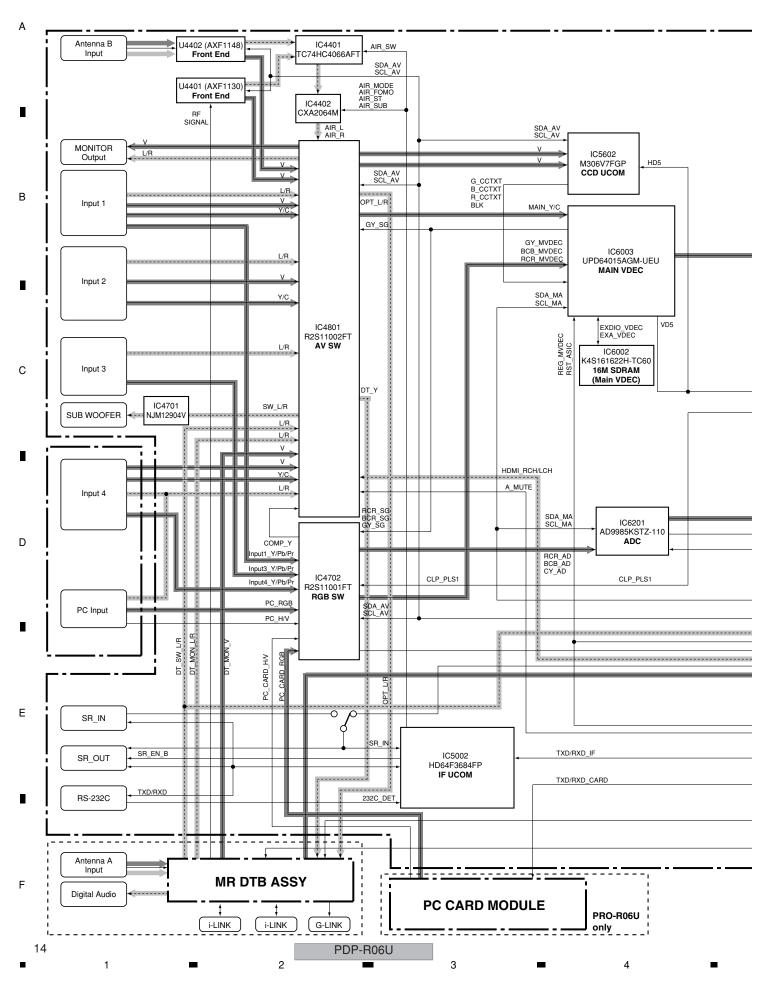
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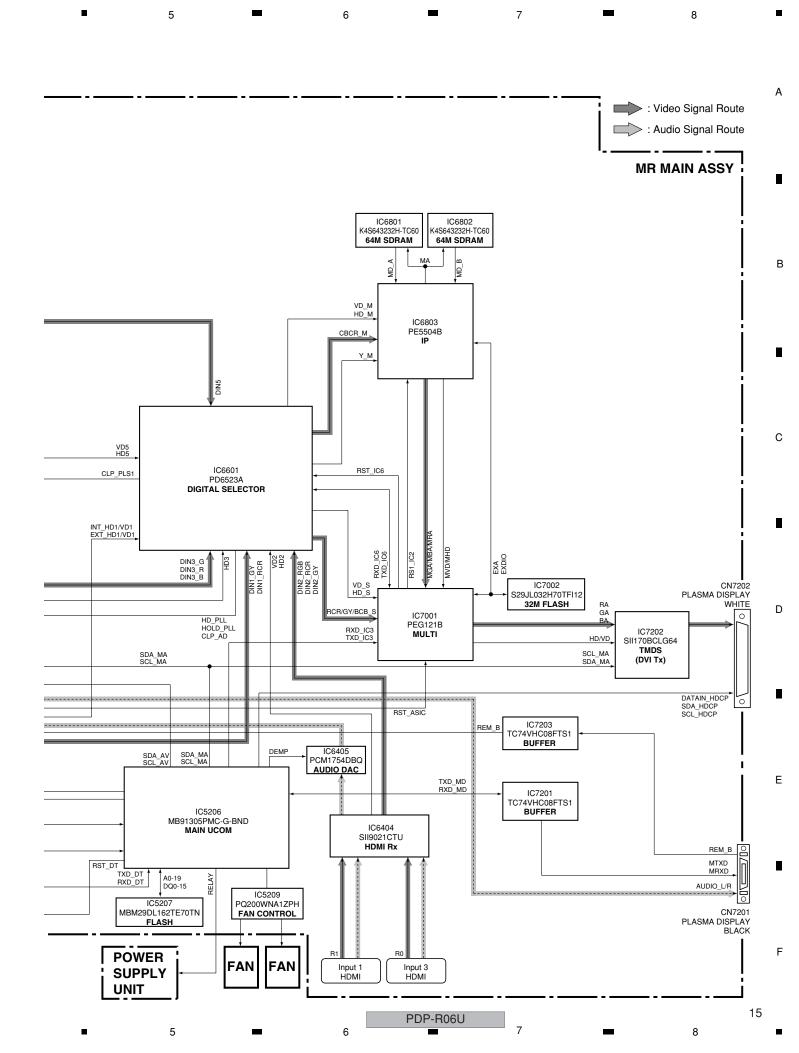
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# 3.1 OVERALL BLOCK DIAGRAM

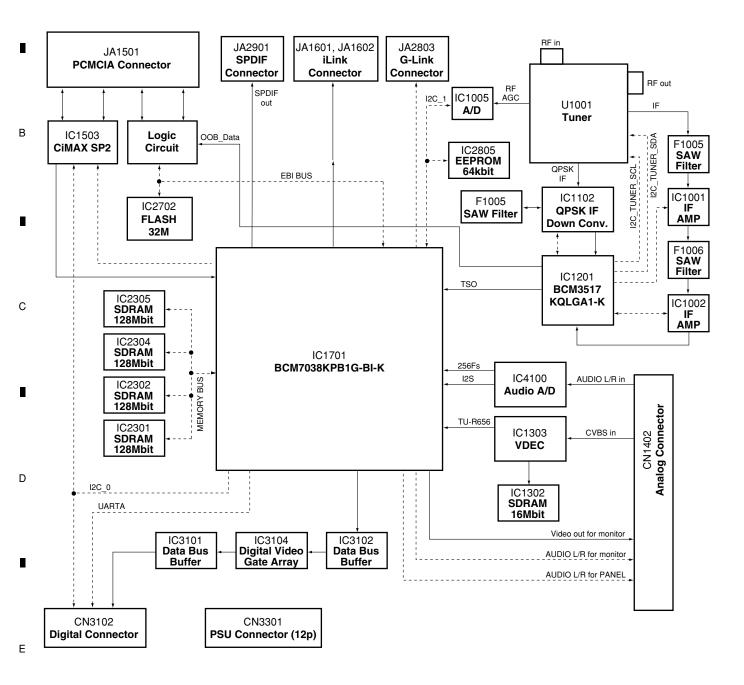




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**MR DTB ASSY** 

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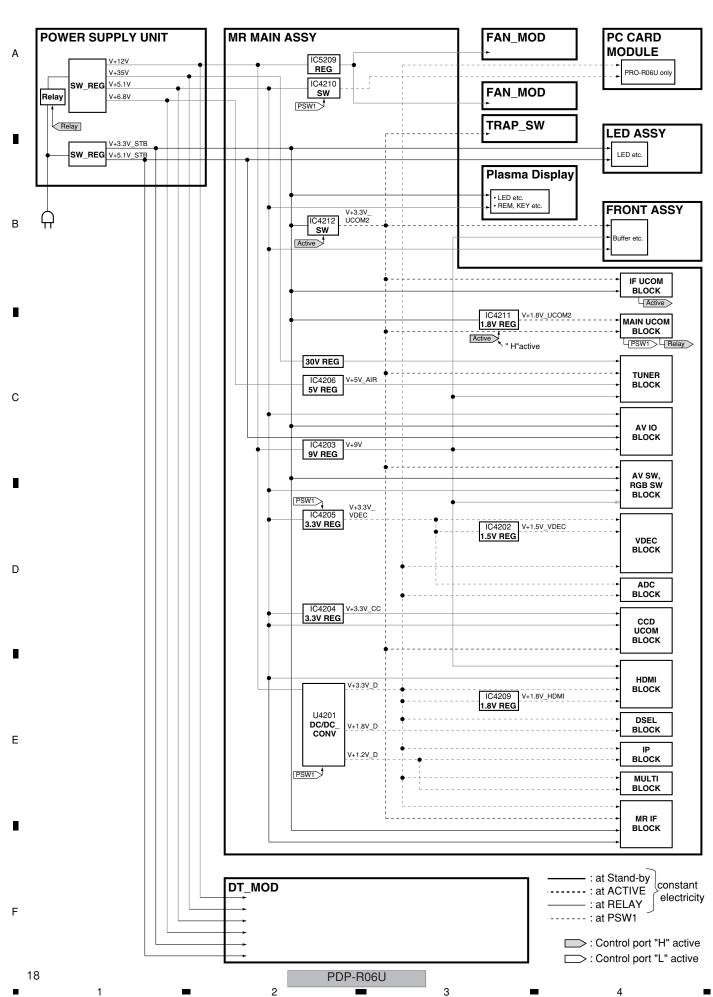
**POWER SUPPLY UNIT** 

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# **PC CARD MODULE**

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IC100 IC300 IC301 IC302 (CPU) (SDRAM) (SDRAM) CN501 (FLASH) CN501  $\bigcirc$  YUVD1\_R TxD ② GND RxD ③ YUVD1\_G 4 GND ⑤ YUVD1\_B Hsync 6 GND Vsync 7 YGND IC600 IC400 IC603 IC600 ® CARD\_H (PCMCIA) (VRAM) (GDC) (GDC) Rout 9 CARD\_V 10 NC Gout ① TXD\_CARD Bout 12 RXD\_CARD CN401, 2 CN1 1.9V **←** IC1 (PCMCIA) CN 1 2.5V **←** IC1 ① 3.3V 3.3V ② 3.3V 1.7V **◆** IC3 PC-card ③ GND (4) GND 3.3V **←** ⑤ 5V 6 GND 3.3V **←** IC4 5V 1.7V **∢** 

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# 3.6 VOLTAGES

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	NT ASSY 7804 (AKM1236)	Voltage	MR MAIN A CN4001 (AKM12	
No.	Pin Name	(V)	Pin Name	No.
1	V+3 3V STB	3.4	V+3 3V STB	50
2	LED ON	0	LED ON	49
3	LED_OFF	3.4	LED_OFF	48
4	GND	0	GND	47
5	V+5 1V STB	5.1	V+5 1V STB	46
6	LED FCT	3.4	LED FCT	45
7	KEY_AD1	3.4	KEY_AD1	44
8	KEY AD2	3.4	KEY AD2	43
9	GND	0	GND	42
10	GND	0	GND	41
11	GND	0	GND	40
12	GND	0	GND	39
13	PC V	0	PC V	38
14	GND	0	GND	37
15	PC H	0	PC H	36
16	GND	0	GND	35
17	PC G	2.5	PC G	34
18	GND	0	GND	33
19	PC B	2.5	PC B	32
20	GND	0	GND	31
21	PC R	2.5	PC R	30
22	GND	0	GND	29
23	GND	0	GND	28
24	INPUT4 PLUG	0	INPUT4 PLUG	27
25	INPUT4 Y	2.5	INPUT4 Y	26
26	GND	0	GND	25
27	GND	0	GND	24
28	INPUT4 PB	2.5	INPUT4 PB	23
29	GND	0	GND	22
30	GND	0	GND	21
31	INPUT4 PR	2.5	INPUT4 PR	20
32	GND	0	GND	19
33	GND	0	GND	18
34	INPUT4 Y	2.5	INPUT4 Y	17
35	GND	0	GND	16
36	INPUT4_C	2.2	INPUT4_C	15
37	GND	0	GND	14
38	INPUT4 SPLUG	5.0	INPUT4 SPLUG	13
39	INPUT4_S2	0	INPUT4_S2	12
40	GND	0	GND	11
41	INPUT4_V	2.5	INPUT4_V	10
42	GND	0	GND	9
43	INPUT4_L	4.5	INPUT4_L	8
44	GND	0	GND	7
45	INPUT4 R	4.5	INPUT4 R	6
46	GND	0	GND	5

# FRONT ASSY LED ASSY CN7803 (AKM1233) Voltage CN8001 (CKS3826)

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CN	7603 (ANW 1233)	voitage	CNOUUI (CKS30	20)
No.	Pin Name	(V)	Pin Name	No.
1	GND	0	GND	12
2	GND	0	GND	11
3	GND	0	GND	10
4	GND	0	GND	9
5	KEY_AD2	3.4	KEY_AD2	8
6	KEY_AD1	3.4	KEY_AD1	7
7	LED_REC	3.4	LED_REC	6
8	V+5_1V_STB	5.1	V+5_1V_STB	5
9	LED_MDM	0	LED_MDM	4
10	LED_OFF	3.4	LED_OFF	3
11	LED_ON	0	LED_ON	2
12	V+3_3V_STB	3.4	V+3_3V_STB	1

## FAN MR MAIN ASSY

		Voltage	CN4007 (AKM12	74)
No.	Pin Name	(V)	Pin Name	No.
_	-	7.0	FAN_12V	1
_	-	0	FAN_NG2	2
_	_	0	GND	3

#### FAN MR MAIN ASSY

		Voltage	CN4009 (AKM127	
No.	Pin Name	(V)	Pin Name	No.
_	-	7.0	FAN_12V	1
_	-	0	FAN_NG1	2
_	-	0	GND	3

# TRAP-SW MR MAIN ASSY

		voitage	CN4015 (AKW12	13)
No.	Pin Name	(V)	Pin Name	No.
_	-	3.4	TRAP_SW	1
_	-	_	-	2
_	-	3.4	V+3_3V_UCOM2	3

#### PC CARD MODULE MR MAIN ASSY CN501 (HFW12S-2STEI) Voltage CN4003 (AKM1233) (V) Pin Name No. No. Pin Name 1 PC\_CARD\_R 0 PC\_CARD\_R 12 2 GND 0 GND 11 3 PC\_CARD\_G 0 PC\_CARD\_G 10 4 GND 9 GND 0 5 PC\_CARD\_B PC\_CARD\_B 0 8 6 GND 0 GND 7 7 GND 0 GND 6 8 PC\_CARD\_H 3.3 PC\_CARD\_H 5 PC\_CARD\_V PC\_CARD\_V 9 3.3 4 10 NC NC 3 0 TXD\_CARD 11 TXD\_CARD 3.3 RXD\_CARD RXD\_CARD

# POWER SUPPLY UNIT MR MAIN ASSY CN101 (KM200NA16) Voltage CN4006 (KM200NA16)

CN1	01 (KM200NA16)	Voltage	CN4006 (KM200NA1	
No.	Pin Name	(V)	Pin Name	No.
16	V+35V	36.0	V+35V	16
15	GND	0	GND	15
14	V+17V	19.0	V+17V	14
13	GND	0	GND	13
12	V+12V	12.3	V+12V	12
11	GND	0	GND	11
10	V+6_8V	6.6	V+6_8V	10
9	GND	0	GND	9
8	V+5_1V	5.1	V+5_1V	8
7	V+5_1V	5.1	V+5_1V	7
6	V+5_1V_STB	5.1	V+5_1V_STB	6
5	GND	0	GND	5
4	V+3_3V_STB	3.4	V+3_3V_STB	4
3	GND	0	GND	3
2	RELAY	3.4	RELAY	2
1	AC_DET	3.4	AC_DET	1

#### POWER SUPPLY UNIT

MD	DTD	ACCV

CN1	02 (KM200NA12)	Voltage	CN3301 (AKM12	98)
No.	Pin Name	(V)	Pin Name	
1	V+35V	36.0	V+35V	1
2	GND	0	GND	2
3	V+17V	19.0	V+17V	3
4	GND	0	GND	4
5	V+12V	12.3	V+12V	5
6	GND	0	GND	6
7	V+6_5V	6.6	V+6_5V	7
8	V+5_1V_STB	5.1	V+5_1V_STB	8
9	V+5_1V	5.1	V+5_1V	9
10	V+5_1V	5.1	V+5_1V	10
11	GND	0	GND	11
12	V+3_3V_STB	3.4	V+3_3V_STB	12

#### PC CARD MODULE

#### MR MAIN ASSY

CN	CN1 (B8B-PH-SM3)		CN4002 (AKM12	77)
No.	Pin Name	(V)	Pin Name N	
1	V+3V_CARD	3.3	V+3V_CARD	1
2	V+3V_CARD	3.3	V+3V_CARD	2
3	GND	0	GND	3
4	GND	0	GND	4
5	V+5V_CARD	5.1	V+5V_CARD	5
6	GND	0	GND	6

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V+5V\_A

V+9V A

48 V+3\_3V\_UCOM

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3.4

5.0

9.0

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V+5V\_A

V+9V A

V+3\_3V\_UCOM 3

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MR C	TB ASSY	MR MAIN	ASS	
CN	1402 (AKM1217)	Voltage	CN4005 (AKM1	303)
No.	Pin Name	(V)	Pin Name	No.
1	GND	0	GND	1
2	GND	0	GND	2
3	DT_MON_R	4.8	DT_MON_R	3
4	GND	0	GND	4
5	DT_MON_L	4.8	DT_MON_L	5
6	GND	0	GND	6
7	DT_SP_R	4.8	DT_SP_R	7
8	GND	0	GND	8
9	DT_SP_L	4.8	DT_SP_L	9
10	GND	0	GND	10
11	OPT_R	0	OPT_R	11
12	GND	0	GND	12
13	OPT_L	0	OPT_L	13
14	GND	0	GND	14
15	NOT_USE	0	NOT_USE	15
16	GND	0	GND	16
17	GND	0	GND	17
18	NOT USE	0	NOT USE	18
19	GND	0	GND	19
20	GND	0	GND	20
21	NOT USE	0	NOT USE	21
22	GND	0	GND	22
23	GND	0	GND	23
24	DT Y	2.2	DT Y	24
25	GND	0	GND	25
26	GND	0	GND	26
27	DT_MON_V	2.9	DT_MON_V	27
28	GND	0	GND	28
29	GND	0	GND	29
30	NOT USE	0	NOT USE	30
31	GND	0	GND	31
32	GND	0	GND	32
33	TEMP3	0	TEMP3	33
34	GND	0	GND	34
35	GND	0	GND	35
36	LED FCT	3.4	LED FCT	36
37	RST3	0	RST3	37
38	RST DT	3.4	RST DT	38
39	DT DET	0	DT DET	39
40	GND	0	GND	40

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CN3	102 (AKM1236)	Voltage	CN4004 (AKM1	201)
No.	Pin Name	(V)	Pin Name	No
1	GND	0	GND	1
2	TXD DT	3.4	TXD DT	2
3	RXD DT	3.4	RXD DT	3
4	GND	0	GND	4
5	DT_FNC	0	DT_FNC	5
6	GND	0	GND	6
7	NC NC	l	NC NC	7
8	NC NC		NC NC	1 8
9	NC		NC	1 9
10	NC		NC	11
11	NC NC		NC NC	1
12	NC NC		NC	1:
13	NC NC		NC NC	1:
14	NC NC		NC NC	1.
15	NC NC		NC NC	1:
16	NC NC		NC NC	10
17				1
-	NC NC		NC NC	-
18	NC NC			10
19	NC		NC	1
20	GND	0	GND	2
21	GND	0	GND	2
22	GND	0	GND	2
23	GND	0	GND	2
24	NC	0	NC	2
25	GND	0	GND	2
26	GND	0	GND	2
27	NC	0	NC	2
28	GND	0	GND	2
29	GND	0	GND	2
30	GND	0	GND	3
31	GND	0	GND	3
32	GND	0	GND	3:
33	NC		NC	3
34	NC		NC	3
35	NC		NC	3
36	NC		NC	3
37	NC		NC	3
38	NC		NC	3
39	NC NC		NC	3
40	NC NC		NC	4
41	NC NC		NC NO	4
42	NC		NC	4:
43	NC		NC	4:
44	NC		NC	4
45	NC		NC	4
46	NC		NC	4
47	NC		NC	4
48	NC		NC	4
49	NC		NC	4
50	NC	1	NC	5

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PDP-R06U

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# **5. PCB PARTS LIST**

NOTES: • Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.

- The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- When ordering resistors, first convert resistance values into code form as shown in the following examples.
   Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J=5%, and K=10%).

Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).

## ■ LIST OF HOLE PCB ASSEMBLIES

)				
_	Mark	Symbol and Description	PDP-R06U/KUCXJ	PRO-R06U/KUCXJ
	$\triangle$	1MR DTB ASSY	AWE1305	AWE1305
	<u> </u>	1MR MAIN ASSY	AWV2225	AWV2223
I	NSP/L	1MR FUKUGO ASSY 2LED ASSY 2FRONT ASSY	AWV2226 AWW1045 AWW1046	AWV2224 AWW1045 AWW1044
	<u> </u>	1POWER SUPPLY UNIT	AXY1113	AXY1113

## C MR MAIN ASSY

AWV2225 and AWV2223 are constructed the same except for the following:

Mark	Symbol and Description	AWV2225	AWV2223
	[BOARD IF BLOCK]		
	R4017,R4018	RS1/16SS474J	Not used
	R4024	Not used	RS1/16SS0R0J
•	R4025	RS1/16SS0R0J	Not used
	CN4002 PH CONNECTOR 6P	Not used	AKM1277
	CN4003 12P FFC CONNECTOR	Not used	AKM1233
	[MR REG BLOCK]		
	IC4210	Not used	BD6522F
_	Q4203	Not used	DTC124EUA
)	F4204 EMI FILTER	Not used	CCG1162
	L4202 INDUCTOR	Not used	BTH1111
	L4206 CHIP FERRITE BEAD	Not used	BTX1042
	C4202,C4207,C4268	Not used	CKSSYF104Z16
_	C4218 (10/6.3V)	Not used	ACG7046
	C4267	Not used	CEHVKW101M6R3
	R4202	Not used	RS1/16SS103J
	[AV IO BLOCK]		
	JA4601 4P MINI DIN SOCKET	AKP1234	AKP1235
	JA4605 9P PIN JACK	AKB1319	AKB1323
	[MAIN UCOM BLOCK]		
≣	R5243	Not used	RS1/16SS103J
	R5251	RS1/16SS103J	Not used
	[MR RGB SW BLOCK]		
	JA4701 9P PIN JACK	AKB1329	AKB1322

# **FRONT ASSY**

AWW1046 and AWW1044 are constructed the same except for the following:

Mark	Symbol and Description	AWW1046	AWW1044
	R7869	Not used	RS1/16SS0R0J
	R7870	RS1/16SS0R0J	Not used
	JA7801 4P MINI DIN SOCKET	AKP1238	AKP1239
	JA7803 PIN JACK (3P)	AKB1303	AKB1304
	JA7805 PIN JACK (3P)	AKB1305	AKB1306

22

PDP-R06U

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■ PCI	B PARTS LIS	T FOR PDF	P-R06U/KUCX	J UNLESS	S OTHER WI	SE NOTED

<u>lark No.</u>	<b>Description</b>	Part No.	Mark No.	Description	Part No.	
MR DTB ASS	Y		<b>CAPACITORS</b>			
			C1108		CCSSCH100D50	
TUNER IF BLO	-		C1106,C1115,C1	124	CCSSCH101J50	
SEMICONDUCT	ORS		C1110		CCSSCH120J50	
IC1005		MCP3021A5-I/OTG	C1107,C1109,C1	117	CCSSCH270J50	
IC1001,IC1002		UPC3219GV	C1111,C1119		CCSSCH390J50	
Q1002-Q1004		2SC5084				
Q1007		BB504CDS	C1118		CCSSCH560J50	
Q1005		DTC143EUA	C1103,C1112,C1	128,C1129	CKSSYB102K50	
			C1133,C1134		CKSSYB102K50	
OILS AND FIL	<u>.TERS</u>		C1101,C1102,C1	104,C1105,C1116	CKSSYB103K16	
F1006 SAW FILT	ER	ATF1219	C1121,C1122,C1	127	CKSSYB103K16	
F1005 SAW FILT	ER	BTF1130				
L1001,L1005 CH	IP COIL	BTH1121	C1123		CKSSYB271K50	
L1004		LCTAW1R5J2520				
L1007		LCYA10NJ2520	<u>RESISTORS</u>			
			All Resistors		RS1/16S###J	
L1006		LCYAR82J2520				
F1002-F1004,F10		VTF1084				
FERRITE BEA	D		[F/E IC BLOCK]	1		
			SEMICONDUC			
APACITORS			IC1201		BCM3517KQLGA1	
C1022		ACH1429	101201		BOMOUTTIQLATI	
C1017		BCG1054	COILS AND FII	TERS		
C1010		CCSSCK2R0C50			DTV1040	
C1027		CEHVKW100M50	L1203 CHIP BEA	AD FILI EK	BTX1042	
C1003		CEHVKW101M6R3	L1201	204 E1206	LCTAW1R8J2520	
			F1201,F1202,F12 FERRITE BEA		VTF1084	
C1026		CKSQYB225K10	FERRITE BEA	AD		
C1028		CKSSYB102K50	CARACITORS			
C1001,C1002,C10		CKSSYB103K16	CAPACITORS			
C1011-C1014,C10		CKSSYB103K16	C1235,C1257-C1		BCG1054	
C1023-C1025,C10	)36-C1039	CKSSYB103K16	C1201,C1203,C1	218	BCG1059	
			C1229,C1234		CCSSCH120J50	
C1016,C1029,C10	)31	CKSSYB104K10	C1228,C1233		CCSSCH9R0D50	
			C1250		CKSSYB102K50	
ESISTORS			C1004 C1014 C1	016 01017	CKSSYB103K16	
R1011		RS1/16SS1001F	C1204-C1214,C1		CKSSYB103K16	
R1035		RS1/16SS1502F	C1219-C1225,C1 C1237-C1239,C1		CKSSYB103K16	
R1018		RS1/16SS2201F	C1257-C1259,C1	241-01249	CKSSYB103K16	
R1025		RS1/16SS4701F	C1232-C1233 C1215,C1236,C1	251 C1256	CKSSYB104K10	
R1024		RS1/16SS4703F	01213,01235,01	201,01200	UI /1401 Q 1 CC/10	
			RESISTORS			
R1036		RS1/16SS5602F	R1201,R1227-R1	220	RAB4CQ330J	
R1045		RS1/16SS6801F	R1201,R1227-R1 R1213,R1217	223	RS1/16S3010F	
R1026		RS1/16SS6802F	Other Resistors		RS1/16S3010F RS1/16S###J	
Other Resistors		RS1/16S###J	Other Resistors		U91/109###J	
T			OTHERS			
THERS			OTHERS	DECONATOR	D001101	
U1001 DIGITAL F	RONT END	AXF1151	X1201 CRYSTAL	RESUNATOR	BSS1134	
				CVI		
QPSK RX BLO	-		[VIDEO IC BLO	-		- 1
<b>EMICONDUC</b>	<u>rors</u>		<u>SEMICONDUC</u>	IORS		
IC1102		UPC3220GR	IC1302		HY57V161610ETP-8	
			IC1303		TVP5160PNP	
OII C AND EII	TERS		Q1301-Q1303,Q1	1306	2SC4081	
OILS AND LIL		VTF1084				
F1101 FERRITE		ATF1215	COILS AND FII	<u>LTERS</u>		
F1101 FERRITE		LCTAW1R5J2520	L1301		LCYA220J2520	
F1101 FERRITE F1102 SAW FILT	LII	LO IAM LUSTISSE		307 FERRITE BEAD	VTF1084	
F1101 FERRITE F1102 SAW FILT L1107	LIT		F1301-F1305,F13			
F1101 FERRITE F1102 SAW FILT L1107 L1104	LIT	LCYA56NJ2520	F1301-F1305,F13			
F1101 FERRITE F1102 SAW FILT L1107	LIT		•			
F1101 FERRITE F1102 SAW FILT L1107 L1104 L1103,L1105	LII	LCYA56NJ2520 LCYA68NJ2520	CAPACITORS			
F1101 FERRITE F1102 SAW FILT L1107 L1104 L1103,L1105 L1102,L1108	LII	LCYA56NJ2520 LCYA68NJ2520 LCYA82NJ2520	CAPACITORS C1302,C1315,C1		BCG1054	
F1101 FERRITE F1102 SAW FILT L1107 L1104 L1103,L1105	LII	LCYA56NJ2520 LCYA68NJ2520	CAPACITORS C1302,C1315,C1 C1336		BCG1054 BCG1059	
F1101 FERRITE F1102 SAW FILT L1107 L1104 L1103,L1105 L1102,L1108	LII	LCYA56NJ2520 LCYA68NJ2520 LCYA82NJ2520	CAPACITORS C1302,C1315,C1 C1336 C1337		BCG1054 BCG1059 CCSSCH470J50	
F1102 SAW FILT L1107 L1104 L1103,L1105 L1102,L1108	LII	LCYA56NJ2520 LCYA68NJ2520 LCYA82NJ2520	CAPACITORS C1302,C1315,C1 C1336		BCG1054 BCG1059	

PDP-R06U

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	Mark No. Description	Part No.	Mark No. Description Part No.	1
	C1346,C1347	CCSSCH8R0D50	[IEEE1394 BLOCK]	
	C1301 C1335,C1350,C1353,C1354	CKSSYB102K50 CKSSYB103K16	<u>SEMICONDUCTORS</u>	
	C1303-C1314,C1316-C1334	CKSSYB104K10	IC1606 CY2305SC-1	
١.	C1338-C1340,C1343-C1345	CKSSYB104K10	IC1604 PST3622NR IC1605 SN74LVC129	
	,		IC1605 SN74LVC1G	
	C1351,C1352	CKSSYB104K10	IC1602 TSB43CA42	
			.0.002	
	RESISTORS	D4D4004044	Q1601 DTC124EUA	١
	R1301,R1302 R1309	RAB4CQ101J RS1/16SS1201F		
	R1311,R1319,R1377	RS1/16SS6800F	COILS AND FILTERS	
	Other Resistors	RS1/16S###J	L1605-L1608 CHOKE COIL ATH1160	
			F1601,F1603 EMI FILTER DTL1106 F1602.F1604 FERRITE BEAD VTF1084	
	<u>OTHERS</u>		11002,11004 1 ETHITE BEAD 1111004	
3	X1301 CRYSTAL RESONATOR	BSS1119	CAPACITORS	
	(14.31818MHz)		C1638-C1640 BCG1054	
			C1634,C1635 CCSSCH221	
	[A-A/D, AV-IF BLOCK]		C1610,C1616 CCSSCH6R	
	SEMICONDUCTORS		C1633,C1637 CKSRYB105 C1611,C1618,C1624 CKSSYB102	
	IC1404	NJM2068V	C1011,C1010,C1024 CK351B102	.N30
	IC1402	PCM1803DB	C1601,C1603,C1623,C1625-C1630 CKSSYB103	K16
			C1636 CKSSYB103	
	COILS AND FILTERS		C1602,C1604-C1609,C1612,C1613 CKSSYB104	
	F1401,F1402,F1404 FERRITE BEA	D VTF1084	C1617,C1619-C1622,C1631,C1632 CKSSYB104	·K10
	O A DA OITO DO		RESISTORS	
,	CAPACITORS	BCG1054	R1606-R1612 RAB4CQ0R0	n. I
	C1401,C1402,C1412,C1418,C1419 C1403,C1408	BCG1054 BCG1059	R1634 RAB4CQ330	
	C1416,C1421	CKSRYB105K10	R1635-R1639,R1649,R1652 RAB4CQ472	-
	C1406,C1413,C1417,C1422	CKSSYB103K16	R1676,R1677 RAB4CQ472	
	C1404,C1409,C1414,C1423,C1424	CKSSYB104K10	R1653 RS1/16S634	10
1	C1407,C1420	CKSSYB271K50	R1674,R1675 RS1/16SS51	01F
	C1405	DCH1165	R1659-R1663,R1671-R1673 RS1/16SS56	
			Other Resistors RS1/16S###	J
	RESISTORS		OTHERS	
	R1414,R1436 R1412,R1429	RS1/16SS1002F RS1/16SS2402F	JA1601,JA1602 AKP1289	
	Other Resistors	RS1/16S###J	IEEE1394 CONNECTOR	
)			X1601 CRYSTAL RESONATOR ASS1202	
	<u>OTHERS</u>		(24.576MHz)	
	CN1402 40P CONNECTOR	AKM1217		
			[BACK END IC BLOCK]	
	[POD IC BLOCK]		SEMICONDUCTORS	
	SEMICONDUCTORS		IC1701 BCM7038KP	B1G-B1
	IC1503	CIMAXSP2L	Q2201 RN1901	
	IC1504	SN74LVC244APW		
	IC1502	SN74LVC245APW	COILS AND FILTERS  F1701-F1709 FERRITE BEAD VTF1084	
	IC1506	SN74LVC257APW	F1701-F1709 FERRITE BEAD VTF1084 F1901 FERRITE BEAD VTF1084	
:	IC1505,IC1507	SN74LVC373APW	F2001-F2003 FERRITE BEAD VTF1084	
	CAPACITORS		F2201-F2209 FERRITE BEAD VTF1084	
	C1510	CCSSCH680J50		
	C1513-C1516	CKSSYB102K50	CAPACITORS	
	C1502-C1509,C1511,C1512	CKSSYB104K10	C1752 ACH1421 C1712 ACH1429	
1	DECISTORS		C2205 BCG1054	
•	RESISTORS R1557	RAB4CQ0R0J	C1734,C1742,C1747,C1751,C1909 BCG1059	
	R1510,R1521,R1549	RAB4CQ103J	C2208 CCSSCH150	)J50
	R1517-R1520,R1526-R1529,R1531	RAB4CQ470J	04700 04704 04744 04745 04700 04/00/12/20	N/4.0
	R1534,R1535,R1539-R1543,R1545	RAB4CQ470J	C1702,C1704,C1711,C1715,C1722 CKSSYB103 C1729,C1730,C1732,C1736,C1738 CKSSYB103	
	Other Resistors	RS1/16S###J	C1729,C1730,C1732,C1736,C1736 CKSSYB103	
	OTHERS		C2009,C2011,C2201,C2203,C2207 CKSSYB103	
	JA1501 PC CARD CONNECTOR	AKP1287	C2215,C2217,C2222,C2225,C2227 CKSSYB103	K16
	3 3 0.112 00111E01011			
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Mark No.	<u>Description</u>	Part No.	Mark No. Description	Part No.	
C2229	•	CKSSYB103K16	[FLASH, E2P BLOCK]		
	3,C1705-C1710	CKSSYB104K10			
	4,C1716-C1721	CKSSYB104K10	<u>SEMICONDUCTORS</u>		
	8,C1731,C1733,C1735	CKSSYB104K10	IC2805	BR24L64F-W	^
	9-C1741,C1743,C1746	CKSSYB104K10	IC2702	PC28F256J3C125	А
01/3/,01/3	9-01741,01743,01746	CK331B104K10	IC2804	PST3622NR	
01740 0175	0.01000.01000.01000	OKCOVD104K10	IC2701	SN74AHC2G02HDCT	
	0,C1902,C1903,C1908	CKSSYB104K10	Q2804	2SA1576A	
	8,C2010,C2012,C2202	CKSSYB104K10			
	6,C2216,C2218,C2223	CKSSYB104K10	Q2805	2SC4081	
C2226,C222	8,C2230	CKSSYB104K10	Q2806	UMD2N	
			D2802	RB501V-40	
RESISTORS	8		D2801,D2803	UDZS4R7(B)	
R2249,R225		RAB4CQ101J	D2001,D2003	0D234N7(B)	
R1715	•	RAB4CQ330J	00110 4110 511 7500		
R2002,R200	6	RAB4CQ470J	COILS AND FILTERS		
			L2802	LCTAW2R2J2520	
R1807-R181	8	RAB4CQ472J			Е
R2204		RS1/16SS1002F	CAPACITORS		_
			C2801	BCG1054	
R2208,R220	9	RS1/16SS1101F		CCSRCH101J50	
R2201-R220	3,R2205-R2207	RS1/16SS75R0F	C2810-C2812,C2816,C2817		
Other Resiste	ors	RS1/16S###J	C2820,C2821	CCSRCH101J50	
			C2803,C2804	CCSSCH120J50	
			C2802,C2806	CCSSCJ3R0C50	_
DDR SDRA	M BLOCKI				
-	-		C2822	CKSQYB105K16	
<u>SEMICOND</u>	UCTORS		C2702-C2706,C2813,C2818,C2819	CKSSYB103K16	
IC2303		BD3533F	C2701	CKSSYB104K10	
IC2301,IC23	02,IC2304,IC2305	MT46V16M16P-6TF	C2808	CKSSYF104Z16	
			02000	01.0011 101210	
CAPACITOR	38		<u>RESISTORS</u>		_
	6,C2311,C2312,C2329	BCG1054		5454664644	С
	6,02311,02312,02329		R2702	RAB4CQ101J	
C2352	_	BCG1054	R2704	RAB4CQ472J	
C2253,C225	5	BCG1059	R2803,R2808	RS1/16S3010F	
C2313		CEHVKW101M6R3	Other Resistors	RS1/16S###J	
C2302-C230	5,C2307-C2310	CKSSYB103K16			
			OTHERS		_
C2315,C231	6,C2319,C2320	CKSSYB103K16	JA2803 MINI JACK (4P)	AKN1073	
C2323,C232	4,C2327,C2328	CKSSYB103K16	CN2701 80P CONNECTOR	BKP1159	
	9,C2342,C2343	CKSSYB103K16			
	7,C2350,C2351	CKSSYB103K16	X2801 CRYSTAL RESONATOR	BSS1134	
	2,C2341,C2345	CKSSYB104K10			
02310,0232	2,02341,02343	010010104110			
C0017 C000	1 00040 00044	CKSSYB471K50	[A/V OUT BLOCK]		_
02317,0232	1,C2340,C2344	CK551B4/1K50	SEMICONDUCTORS		D
	_		IC3001,IC3002,IC3004,IC3005	N IM2068V	
RESISTORS	<u>S</u>			NJM2068V	
All Resistors		RS1/16S###J	Q2901	2SA1576A	
			COILS AND FILTERS		
BUSTEDM	INAL BLOCK]		L3001,L3002 CHIP COIL	BTH1107	_
•	_		F2901 FERRITE BEAD	VTF1084	
COILS AND					
F2601-F2603	3 FERRITE BEAD	VTF1084	CAPACITORS		
				D004050	
CAPACITOR	RS		C2902	BCG1059	
C2509-C251		BCG1054	C3003,C3013,C3023,C3036	CCSRCH331J50	
			C3001,C3004,C3014,C3015	CCSSCH220J50	_
C2501-C250		CKSSYB103K16	C3024,C3025,C3037,C3038	CCSSCH220J50	Е
C2601-C261	1	CKSSYB104K10	C3006,C3010,C3029,C3032	CCSSCH560J50	
	_		C3020,C3021,C3042,C3043	CKSSYB103K16	
RESISTORS	<u>S</u>				
R2501-R250	8,R2552-R2559	RAB4CQ101J	C2924	CKSSYB104K10	
R2509-R252	5,R2530-R2543	RAB4CQ220J	C3007,C3017,C3026,C3039	CKSSYB391K50	
	8,R2560,R2561	RAB4CQ220J	C3009,C3012,C3031,C3035	CKSSYB821K50	-
	5,R2568-R2573	RAB4CQ220J			
,	8,R2549,R2550	RAB4CQ510J	C2904	CKSSYF104Z16	
112020371202	٠٠,١ ١٢٥٦٥,١ ١٢٥٥٥	11/104000100	C3019,C3041	DCH1165	
DOESO DOES	o Doece Doec	DADACOE101			
	3,R2566,R2567	RAB4CQ510J	<u>RESISTORS</u>		
Other Resiste	UIS	RS1/16S###J	R3005,R3006,R3023,R3024	RS1/16SS3302F	
			R3039,R3040,R3062,R3063	RS1/16SS3302F	F
			Other Resistors	RS1/16S###J	F
			2		

PDP-R06U

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Mark No. Description	Part No.	Mark No. Description	Part No.
OTHERS JA2901 OPTICAL OUTPUT JACK	TOTX179PL	C3310 C3307 C3318,C3322,C3351	CKSSYB102K50 CKSSYB103K16 CKSSYB471K50
[DVD I/F BLOCK]		C3306,C3309,C3325,C3326,C3364 C3401,C3408,C3410,C3412	CKSSYF104Z16 CKSSYF104Z16
SEMICONDUCTORS		DECICTORS	
IC3104	PE5436A	RESISTORS	
IC3101,IC3102	SN74AVC16827DGG	All Resistors	RS1/16S###J
<b>COILS AND FILTERS</b>		OTHERS CN3301 12P CONNECTOR	AKM1298
F3101,F3103 FERRITE BEAD	VTF1084	CN3301 12P CONNECTOR	ANW1296
CAPACITORS		[POWER BLOCK (2/2)]	
C3102,C3116,C3117	BCG1054	SEMICONDUCTORS	
C3137-C3141	CCSSCH221J50	IC3312	BA00BC0WEB
C3101,C3109-C3115	CKSRYB105K10		BA00BC0WFP
C3118-C3131	CKSSYB102K50	IC3314,IC3318 IC3310,IC3313,IC3317,IC3321	PST623XW R1224N102H
C3103-C3108,C3132,C3133	CKSSYB104K10	Q3301.Q3305	2SA1576A
C3134-C3136	CKSSYB471K50	Q3302,Q3303,Q3306,Q3311	CPH6311
DECICTORS		Q3307	DTC124EUA
RESISTORS	DAD4000D0 I	Q3304,Q3308,Q3310	RN1901
R3121	RAB4CQ0R0J	D3311,D3312,D3315,D3318	D1FM3
R3104,R3119,R3122,R3133,R3134	RAB4CQ330J		<del>.</del>
R3145	RAB4CQ330J	<b>COILS AND FILTERS</b>	
R3108,R3109,R3113	RAB4CQ470J	L3302,L3305 INDUCTOR	ATH1161
Other Resistors	RS1/16S###J	L3301,L3317 CHOKE COIL	ATH1192
OTHERS		L3307,L3308 CHIP BEAD FILTER	BTX1042
<u>OTHERS</u>		20007,20000 OTHI BEAD FIETER	DIXIOHE
CN3102 50P CONNECTOR	AKM1236	CAPACITORS	
		C3338,C3346	ACH1429
		C3332,C3334,C3337,C3339,C3347	
[POWER BLOCK (1/2)]		C3357,C3359	BCG1054
<u>SEMICONDUCTORS</u>		C3344	BCG1059
IC3315	MM1563DF	C3335,C3358	CEHVKW101M6R3
IC3301,IC3306	MM1565AF	00000,00000	OLITVIC TO TIVIOLIS
IC3309	NJM2370U09	C3345	CEHVKW470M16
IC3316	NJM2846DL3-18	C3331.C3333.C3340-C3342.C3360	
IC3302,IC3305,IC3307	NJM2846DL3-33	C3336,C3343	CKSSYB102K50
		C3316,C3317,C3329,C3361	CKSSYB103K16
IC3304	NJM2871BF05	C3441	CKSSYB152K50
Q3309	2SC4081		
D3308	1SS355	C3367	CKSSYB682K25
D3302-D3305,D3307,D3309,D3310	RB501V-40	C3330	CKSSYF104Z16
D3314,D3316	RB501V-40		
D3317	UDZS30(B)	<u>RESISTORS</u>	
	\-/	R3352,R3353	RS1/10S271J
COILS AND FILTERS		R3375,R3421	RS1/16SS1002F
L3304 CHIP BEAD FILTER	BTX1042	R3382,R3422	RS1/16SS1003F
F3301.F3302 FERRITE BEAD	VTF1084	R3348	RS1/16SS1103F
		R3381,R3425	RS1/16SS1202F
CAPACITORS		P2244	D01/10001F00F
C3302,C3304,C3305,C3313,C3314	BCG1054	R3344	RS1/16SS1503F
C3321,C3363,C3409,C3411	BCG1054	R3323,R3354	RS1/16SS2202F
C3356	BCG1059	R3355	RS1/16SS3302F
C3323	BCG1060	R3328 R3380.R3384	RS1/16SS5102F RS1/16SS5602F
C3311	BCG1064	110000,110004	1101/10000002F
		R3349	RS1/16SS9102F
C3324	CEHVKW100M50	R3314-R3316	RS1/4S1R5J
C3407	CEHVKW470M16	R3337,R3338	RS1/4S3R3J
C3301,C3319,C3353	CKSQYB105K16	Other Resistors	RS1/16S###J
C3354	CKSQYB225K10		
C3308,C3362	CKSRYB105K10	<u>OTHERS</u>	
		8008 INSULATION SHEET	AAK2862
		8001 THERMAL SHEET B	AEB1417
		8101 CASE TOP U	ANG2787
		8102 CASE BOTTOM	ANG2898
		8103 HEAT SINK B	ANH1645
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Mark No. Description 8006 GASKET	Part No. ANK1789	Mark No. Description	Part No.	
8007 GASKET	ANK1799 ANK1790	RESISTORS R4225	RS1/10S0R0J	
8301 SCREW	BBB30P080FTC	Other Resistors	RS1/16S###J	
8302 SCREW 8303 SCREW	BBZ30P060FTC PMB20P100FTC	OTHERS		Α
		U4201 DD CONTROL UNIT	AXY1117	
MR MAIN ASSY		[MR TUNER BLOCK]		
[BOARD IF BLOCK]		SEMICONDUCTORS		
SEMICONDUCTORS		IC4402	CXA2064M	
Q4001 D4001	DTA124EUA 1SS355	IC4401 Q4406,Q4414	TC74HC4066AFT 2SA1586	
		Q4401,Q4402,Q4405,Q4408,Q4409	2SC4116	
RESISTORS	DON4.070	Q4416-Q4418	2SC4116	Б
R4008,R4010 R4011	BCN1070 RAB4CQ0R0J	Q4404	DTA124EUA	В
R4021-R4023	RS1/10S0R0J	Q4403,Q4407,Q4413,Q4415	HN1B04FU	
Other Resistors	RS1/16S###J	Q4410 D4401	HN1C01FU 1SS355	
OTHERS		D4402	UDZS30(B)	
CN4004 50P CONNECTOR	AKM1201	COILS AND FILTERS		
CN4015 3P CONNECTOR CN4001 50P CONNECTOR	AKM1213 AKM1236	L4401-L4404 CHIP COIL	BTH1121	
CN4007,CN4009 3P CONNECTOR	AKM1274	F4401-F4404 FERRITE CORE	VTF1080	
CN4005 40P CONNECTOR	AKM1303	CAPACITORS		
		C4419,C4425,C4427 (4.7U/10V)	ACG1122	
[MR REG BLOCK]		C4430,C4440,C4441 (4.7U/10V)	ACG1122	С
SEMICONDUCTORS	BD05005	C4412,C4443 (10/6.3V) C4445 (100UF/16V)	ACG7046 ACH1394	
IC4212 IC4211	BD6522F MM1661JH	C4421	ACH1417	
IC4202	NCP1117ST15	C4420	ACH1418	
IC4209 IC4204,IC4205	NCP1117ST18 PQ033ENA1ZPH	C4450	CCSRCH331J50	Ī
104204,104200	1 QUUULIVATZI TI	C4414,C4447 C4401	CCSRCH821J50	_
IC4206 IC4203	PQ050DNA1ZPH PQ090DNA1ZPH	C4405,C4406,C4434,C4435	CEHVKW100M50 CEHVKW101M6R3	
Q4201	DTC124EUA	0.1100	05111/1/1/0001440	
D4202-D4206,D4209,D4211	1SS355	C4436 C4422,C4428,C4451,C4452	CEHVKW220M16 CKSRYB105K10	
COILS AND FILTERS		C4442	CKSRYB123K50	D
L4201 INDUCTOR	BTH1111	C4407,C4431 C4402.C4415.C4416	CKSRYF104Z50 CKSSYB102K50	
	BTX1042 CCG1162	04402,04410,04410		
EMI FILTER	BTH1111	C4423 C4424	CKSSYB272K50 CKSSYB473K16	
0.4.04.04.00		C4429	CKSSYB562K25	
CAPACITORS C4206,C4209,C4215 (10/6.3V)	ACG7046	C4410,C4411,C4439	CKSSYF104Z16	
C4220,C4240,C4250 (10/6.3V)	ACG7046	C4418,C4426,C4444,C4446	DCH1165	
C4253,C4257 (10/6.3V) C4260.C4263 (10/6.3V)	ACG7046 ACG7046	<u>RESISTORS</u>		
C4260,C4263 (10/6.3V) C4213 (100UF/16V)	ACH1394	R4401 R4430.R4431	ACN1199 RS1/16SS1002F	_
0.404.0.404.0.4000	40114.400	R4437	RS1/16SS6802F	Е
C4210,C4244,C4269 C4273	ACH1429 CCSSCH101J50	VR4401	CCP1394	
C4216,C4219,C4221,C4222,C4224	CEHVKW101M6R3	VR4402-VR4404	CCP1396	
C4228,C4238,C4264 C4226	CEHVKW101M6R3 CEHVKW220M16	Other Resistors	RS1/16S###J	
		OTHERS		
C4214 C4217,C4223	CKSRYB104K16 CKSRYB105K10		AXF1130	
C4229,C4252	CKSSYB104K10	⚠U4402 FRONT END (US)	AXF1148	
C4232	CKSSYB471K50			
C4204,C4212,C4227,C4251	CKSSYF104Z16			_
C4261,C4262	CKSSYF104Z16			F
C4211,C4225,C4256	DCH1165			
_		PDP-R06U	_	27

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-	Mark No. Description	Part No.	Mark No. Description	on Part No.
	[AV IO BLOCK]		C4808,C4809	CKSSYB104K10
	SEMICONDUCTORS		C4801,C4803,C4805,C4812	CKSSYF104Z16
	IC4601	MAX3232CPW	C4814-C4816,C4830,C4841,C4	1844 CKSSYF104Z16
			C4853.C4854	CKSSYF104Z16
	IC4603	TC74VHC00FTS1	C4826,C4829,C4831,C4842,C4	
	IC4602	TC74VHC125FTS1	,, , . , . , . , . , . ,	
	Q4605-Q4607,Q4612,Q4615 Q4609,Q4610,Q4613	2SA1586 2SC4116	C4845,C4846	DCH1165
	Q4009,Q4010,Q4013	2304110		
	Q4602,Q4603	2SC5233	<u>RESISTORS</u>	
	Q4601	DTA124EUA	R4819,R4821	RS1/16S1800F
	Q4604,Q4611,Q4614,Q4616	DTC124EUA	R4818,R4820	RS1/16S5600F
	Q4608	HN1A01FU	Other Resistors	RS1/16S###J
	D4601	1SS301		
			TIE LICOM DI COM	
	D4602,D4618-D4621	1SS355	[IF UCOM BLOCK]	
	OA DA OLTO DO		<u>SEMICONDUCTORS</u>	
	<u>CAPACITORS</u>		IC5002	HD64F3684FP
	C4607 (10/6.3V)	ACG7046	IC5003	PST9230N
	C4601,C4608	ACH1419	IC5001	TC74VHC08FTS1
	C4632,C4634	CEHVKW100M16	IC5004	TC7W126FU
	C4610,C4612,C4617-C4620	CKSRYB105K10	Q5001	DTC124EUA
	C4625,C4626	CKSRYB105K10		
			<u>CAPACITORS</u>	
	C4611,C4615,C4616,C4622-C4624	CKSSYB103K16	C5007,C5008	CCSSCH180J50
	C4614,C4621	CKSSYB473K16	C5001	CEHVKW101M6R3
	C4606,C4627-C4631,C4633,C4635	CKSSYF104Z16	C5010	CKSSYB472K25
	C4602,C4605,C4609,C4613	DCH1165	C5002-C5005,C5009,C5012	CKSSYF104Z16
	DECISTORS		DE010=0=0	
	RESISTORS	D04/400404 I	<u>RESISTORS</u>	
	R4619	RS1/10S121J	R5002,R5004,R5007,R5025,R5	
	R4611	RS1/10S151J	Other Resistors	RS1/16S###J
	R4624,R4625,R4627,R4633	RS1/16S75R0F		
	R4635,R4636	RS1/16S75R0F	<u>OTHERS</u>	
	Other Resistors	RS1/16S###J	X5002 CERAMIC RESONATO	R ASS1168
	OTHERS		X5001 CRYSTAL OSCILLATOR	R ASS1172
	<u>OTHERS</u>			
	JA4605 9P PIN JACK	AKB1319		
	JA4603 MINI JACK (4P)	AKN1073	[MAIN UCOM BLOCK]	
	CN4602 9P D-SUB SOCKET	AKP1213	SEMICONDUCTORS	
	JA4601 DUAL 4P MINI DIN (S)	AKP1234	IC5202	BR24L64F-W
	JA4604 REMOTE CONTROL JACK	RKN1004	IC5206	MB91305PMC-G-BN
			IC5207	MBM29DL162TE701
	[MR AV SW BLOCK]		IC5210 IC5209	MM1522XU PQ200WNA1ZPH
	SEMICONDUCTORS		100209	FQZUUWINAIZPH
	IC4803	NJM12904V	ICE202	Detagonid
	IC4801	R2S11002FT	IC5203	PST3628UR
	Q4801-Q4803,Q4805,Q4806	2SA1586	IC5201,IC5204	TC74VHC125FTS1
	Q4811,Q4812	2SA1586	Q5202	2SJ461A
	Q4807,Q4810,Q4813,Q4814	2SC4116	Q5204 Q5201	DTC124EUA SM6K2
		=555	<b>₩</b> 0201	SIVIONZ
	Q4808,Q4815	DTA124EUA	D5203	1SS355
	Q4809,Q4816	DTC124EUA	D5203	SML-311UT
	D4801	1SS301	50201	OWIE OTTO
			CAPACITORS	
	<u>CAPACITORS</u>		C5235	CCSRCH221J50
	C4834	ACG1122	C5217,C5218,C5240-C5249	CCSSCH470J50
	C4818,C4822 (10/6.3V)	ACG7046	C5238	CEHVKW100M35
	C4825,C4828,C4832,C4833	CCG1205	C5201	CEHVKW101M6R3
	C4847,C4850	CCSRCH181J50	C5261-C5263,C5276	CKSSYB102K50
	C4852,C4855	CCSRCH681J50	5525. 55255,56276	5.100.15.1021100
			C5216,C5233	CKSSYB103K16
	C4819	CEHVKW101M6R3	C5215	CKSSYB472K25
	C4802,C4804,C4806,C4807	CKSRYB105K10	C5253	CKSSYF103Z50
	0 1002,0 100 1,0 1000,0 1007	CKSRYB105K10	C5202-C5214,C5219,C5222-C5	
	C4810,C4811,C4813,C4817			
	C4810,C4811,C4813,C4817 C4820,C4821,C4823,C4824,C4827	CKSRYB105K10	C5234,C5252,C5399	CKSSYF104Z16
	C4810,C4811,C4813,C4817		C5234,C5252,C5399	CKSSYF104Z16

PDP-R06U

ark No. Description	Part No.	Mark No. Description	Part No.	
ESISTORS		RESISTORS		
R5262,R5268	ACN1248	R6010,R6068,R6072	ACN1246	
R5205,R5213	RAB4CQ101J	R6065,R6073	BCN1067	
R5283	RS1/16S1201F	R6007,R6030,R6071	RAB4CQ220J	
R5282	RS1/16S4301F	R6063	RS1/16SS1001D	
R5273	RS1/16S8201F	R6038,R6039,R6049	RS1/16SS2000F	
Other Resistors	RS1/16S###J	R6054 R6052	RS1/16SS2201D RS1/16SS6200D	
THERS		Other Resistors	RS1/16S###J	
CN5202 50P CONNECTOR	AKM1201			
K5201,K5202 TEST PIN	AKX9002	<u>OTHERS</u>		
X5201 CERAMIC RESONATOR	ASS1178	X6002 CRYSTAL	ASS1191	
CCD UCOM BLOCK]		[MR ADC BLOCK]		
EMICONDUCTORS		SEMICONDUCTORS		
IC5603	FMS6410CS	IC6201	AD9985KSTZ-110	
IC5602	PEG150A			
Q5601,Q5605	2SA1586	COILS AND FILTERS		
			CCG1162	
<u>APACITORS</u>				
C5612,C5614	CCG1205	CAPACITORS		
C5603,C5609	CCSRCH331J50	C6205,C6209	CKSSYB104K10	
C5618,C5619	CCSRCH5R0C50	C6207,C6210,C6218	CKSSYB473K16	
C5611,C5613	CCSSCH221J50	C6202	CKSSYB822K16	
C5620	CCSSCK2R0C50	C6201	CKSSYB823K10	
		C6203,C6204,C6206,C6208	CKSSYF104Z16	
C5605,C5617	CEHVKW100M16	33233,33231,33230,33230	00011 101210	
C5622,C5623	CKSRYB105K10	C6211,C6212,C6215-C6217	CKSSYF104Z16	
C5606,C5607	CKSSYB102K50	C6222-C6224	CKSSYF104Z16	
C5602,C5604	CKSSYB104K10	OULL OULT	3.3311 10±210	
C5621	CKSSYB153K16	RESISTORS		
	-		DCN1067	
C5608,C5610,C5615,C5616,C5624	CKSSYF104Z16	R6213,R6218,R6223	BCN1067	
-,	: <del>-</del> :	R6202	RS1/16SS2701F	
<u>SISTORS</u>		Other Resistors	RS1/16S###J	
R5631	RAB4CQ101J			
R5633	RAB4CQ101J	IMP LIDER BY COLG		
R5601-R5603,R5606-R5609	RAB4CQ102J RAB4CQ473J	[MR HDMI BLOCK]		
R5614-R5617,R5621-R5623	RAB4CQ473J	<u>SEMICONDUCTORS</u>		
R5657,R5658	RAB4CQ473J	IC6402,IC6403	BR24L02FJ-W	
1 10007 ,1 10000	11/1040/4/30	IC6405	PCM1754DBQ	
Other Resistors	RS1/16S###J	IC6404	SII9021CTU	
Office Legistots	1101/100###J	Q6416,Q6417	2SA1586	
THEDS		Q6412,Q6414	DTA124EUA	
THERS	A004450			
X5601 CERAMIC RESONATOR	ASS1159	Q6413,Q6415	DTC124EUA	
		Q6402,Q6405	HN1K02FU	
DVDEO DI COIG		Q6403,Q6404	RN1902	
IR VDEC BLOCK]		D6404,D6408	1SS301	
MICONDUCTORS		D6403,D6407	UDZS6R8(B)	
IC6002	K4S161622H-TC60	,	( /	
IC6003	UPD64015GM-UEU	COILS AND FILTERS		
		↑ F6401 EMI FILTER	CCG1162	
OILS AND FILTERS		COLOTO I CIVILI ICI CI I	0001102	
F6001,F6002,F6010,F6011	CCG1162	CADACITODS		
EMI FILTER	000110 <u>2</u>	CAPACITORS	ACC7040	
		C6491 (10/6.3V)	ACG7046	
ADACITODS		C6401,C6403,C6405,C6409,C6411	CCSSCH101J50	
APACITORS	ACC704C	C6419,C6426,C6428,C6430,C6432	CCSSCH101J50	
C6056,C6088	ACG7046	C6434,C6435,C6438,C6440,C6442	CCSSCH101J50	
C6078,C6083	CCSSCH8R0D50	C6444,C6446,C6448,C6449,C6454	CCSSCH101J50	
C6062,C6065,C6069,C6071,C6079	CKSSYB103K16	00450 00450 00404 00400 00400	0000011404 150	
C6046,C6058,C6063,C6064	CKSSYB104K10	C6456,C6459,C6464,C6466,C6468	CCSSCH101J50	
C6066,C6067,C6070,C6072-C6077	CKSSYB104K10	C6470,C6472,C6474,C6476,C6478	CCSSCH101J50	
		C6480,C6482	CCSSCH101J50	
	CKSSYB104K10	C6462,C6463	CCSSCH120J50	
C6080-C6082,C6084,C6085			051000000000000000000000000000000000000	
C6080-C6082,C6084,C6085 C6001-C6008,C6012-C6028	CKSSYF104Z16	C6425,C6484	CEHVKW220M6R3	
	CKSSYF104Z16 CKSSYF104Z16	C6425,C6484	CEHVKW220M6R3	

PDP-R06U 7 ■ 8

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Ceda2_Ceda4_Ceda6_Geda6_Ceda10	-	2	_	4
Cel-12_Cel-14_Cel-14_Cel-16	•			Part No.
Code20 Code24 Code27 Code20 Code31   CKSSYF104216   RESISTORS   Code43 Code43 Code47 Code40 Code45 Code47 Code47 Code40 Code5 Code5 Code43 Code44 Code47 Code50 Code5 Code5 Code5 Code5 Code67 Code			C6839-C6862	CKSSYF104Z16
C6493.06436.0647.06499.06491 C6493.0645.0647.06499.06491 C6495.0645.0647.06499.06491 C6495.0645.0647.06498.0471.06473 C6495.06470.06498.0471.06473 C6495.06470.0649.0471.06473 C6495.06470.06498.0471.06473 C6495.06470.0649.0471.06473 C6495.06470.0649.0471.06473 C6495.06470.0649.0471.06473 C6495.06470.0649.0471.06473 C6495.0649.0471.06473 C6495.0649.0471.06473 C6495.0649.0471.06473 C6495.0649.0471.06473 C6495.0649.0471.06473 C6496.0649.0649.0471.06473 C6496.0649.0649.0471.06473 C6496.0649.0649.0471.06473 C6496.0649.0649.0649.0471.06473 C6496.0649.0649.0649.0649.0649.0649.0649.			RESISTORS	
C6443_C6447_C6469_C6461   C6455_C6457_C6458_C6460_C6461   C6455_C6457_C6458_C6467_C6468   C6467_C6468   C6467_C6468_C6467_C6468_C6467_C6468   C65857F104Z16   C68557F104Z16				ACN1246
C6455_C6467_C6468_C647_C6476_C6480_C647_C6476_C6486_C647_C6468_C647_C6476_C6486_C647_C6486_C6486_C647_C6486_C6486_C647_C6486_C6486_C647_C6486_C6486_C647_C6476_C648_C648			•	
Ce45S.CH437.C6448C.C440C.C4611   CKSSYF104Z16   R6823, R6827, R6828   BCN1067   CKSSYF104Z16   R6818   R6810   CKSSYF104Z16   R6818   R6817   R6817   R6817   R6816   R6818   R6419, R6419, R6419   R6419, R6419, R6419   R6419, R6419, R6419   R6419, R6419, R6419   R6419   R6419, R6419, R6419	00443,00443,00447,00430-00433	CK331F104Z16	*	
Ce495_Ce475_Ce496_Ce491_Ce493   CkSSYF104216   R6818   R6818   R6101071     Ce490	00455 00457 00450 00400 00404	01/00//5404740		
C6475,C6477,C6479,C6481,C6483   CKSSYF104Z16   R8832   R8817   R8817   R8817   R8817   R8817   R8817   R8818,R8419,R8421   R8418,R8419,R8421   R8418,R8419,R8421   R8418,R8419,R8421   R8418   R8418,R8419,R8421   R8418   R8418   R8418,R8419,R8421   R8418   R8418   R8418   R8418   R8418   R8418   R8418   R8418   R8416   R8418   R841			R6823,R6825,R6827,R6828	BCN1067
C6490			R6818	BCN1071
RESISTORS	C6475,C6477,C6479,C6481,C6483	CKSSYF104Z16		
RESISTORS	C6490	CKSSYF104Z16	R6832	RAB4CQ101J
Re418 R6419 R6421   RA6H2			R6817	RAB4CQ470J
R8418_R8419_R8421   ACN1251   R8445   R8454   R8454   R8454   R8454   R8456   R848CO100J   R846CO100J   R8453   R8450	RESISTORS		Other Resistors	RS1/16S###J
B8414   B8485   BABACQ1003   BABACQ1033   BAB4CBACQ1034   B8485   BAB4CGACQ1034   BAB4CGACQ1		ACN1251		
Re465   RAB4CO103J   RMR MULTI BLOCK  SEMICONDUCTORS   RAB4CO470J   SEMICONDUCTORS   RE416   RAB4CO470J   SEMICONDUCTORS   RE416   RAB4CO4680J   RAB4CO46				
B R6438 RAB4CQ470J SEMICONDUCTORS R51/16S##J IC7002 MBM29DL11 C7004 TC704 TC704 MBM29DL11 C7004 TC704 MBM29DL11 C7006 MBM29DL11 C7006 MBM29DL11 C7006 C7006 C7017 C7017 C7019 C7006 C7006 C7017 C7017 C7019 C7006 C7006 C7010 C7017 C7019 C7006 C7006 C7010 C7017 C7019 C7006 C7006 C7010 C7017 C7019 C7005 C7008 C7010 C7017 C7019 C7006 C7017 C7019 C7006 C7017 C7017 C7019 C7007 C7017 C7017 C7019 C7017 C7017 C7017 C7019 C7017 C			IMP MIII TI BI OCKI	
B R6416 RAB4CQ680J IC7001 PEG121B  Other Resistors RS1/16S##J IC7001 PEG121B  C7001 PEG121B  C7001 PEG121B  C70001 PEG121B  C7001 PEG121B  C7				
Coller Resistors	D			
OTHERS         RS1/16S###J         IC7004         TC74VHC08           OTHERS         JA8401,JA8402         AKP1278         COILS AND FILTERS         AF7001-F7006 EMI FILTER         CCG1162           JA8401 CRYSTAL         ASS1192         CAPACITORS         C7052         CKSSVF104           IMR DSEL BLOCK]         C7052         C7052         CKSSVF104           SEMICONDUCTORS         C106601         PD6523A         C7039-C7042,C7044,C7046-C7048         CKSSVF104           C01LS AND FILTERS         AF6602         TC74LCX125FT         C7050         CKSSVF104           C01LS AND FILTERS         AF6604 CHIP BEAD FILTER         ATX1058         ASS1192         ASS1192           CAPACITORS         ACG7046         R7011,R7013,R7024,R7032,R7036         ACN1251         ACN1251           C6632 (1016,3V)         ACG7046         R7015,R7023         RAB4CC0103           C6631 (2663,C6607-C6610         CKSSVF104216         R7016,R7018,R7070         RAB4CC0103           C6631-C6603,C6607-C6610         CKSSVF104216         Other Resistors         RS1/16S##           C6625-C6629,C6630         CKSSYF104216         Other Resistors         RS1/16S##           R6603,R6605         ACN1251         IC7201,IC7203         TC774HCC02           R6613,R6620         RAB4CQ	10410	HAB4CQ0000		MBM29DL162TE70TN
OTHERS         JA6401_AB6402         AKP1278         COILS AND FILTERS         JA6401_AB6402         AKP1278         COILS AND FILTERS         JA6401_AB6402         CAPACITORS         CCG1162           IMR DSEL BLOCKJ         ASS1192         CAPACITORS         C7082         C7096, C7008, C70010-C7017, C7019         CKSSVF100         ACM1245         ACM1245         ACM1245         ACM1245         ACM1251         ACM1245         ACM1245         ACM1245         ACM1246         ACM1246         ACM1251	Other Decisters	DC1/1.CC### I	IC7001	PEG121B
JA6401_JA6402	Other Resistors	R51/165###J	IC7004	TC74VHC08FTS1
JA6401_JA6402				
JA6401_JA6402  JA64012   JA6401   JA64012   JA6401   JA6401   CRYSTAL   ASS1192   CAPACITORS	<u>OTHERS</u>		COILS AND FILTERS	
HDMI CONNECTOR   X8401 CRYSTAL   ASS1192   CAPACITORS   CKSSYB102   C7052   CKSSYB102   C7056, C7008, C7010-C7017, C7019   CKSSYF104   C7021, C7023, C7024, C7026-C7029   CKSSYF104   C7023, C7034, C7036, C7037   CKSSYF104   C7039-C7042, C7034, C7036, C7037   CKSSYF104   C7039-C7042, C7044, C7046-C7048   CKSSYF104   C7039-C7044, C7046, C7044, C7046-C7048   CKSSYF104   C7039-C7044, C7046, C7046, C7044, C7046-C7048   CKSSYF104   C7046, C7	JA6401,JA6402	AKP1278		CCG1162
X6401 CRYSTAL			(1) / VUI -1-/ VUO EIVII FILI ER	0001102
MR DSEL BLOCK    SEMICONDUCTORS		ASS1192	CARACITORS	
MR DSEL BLOCK    SEMICONDUCTORS   C7006,C7008,C7010-C7017,C7019   CXSSYF104   C7032-C7034,C7026-C7029   CXSSYF104   C7032-C7034,C7036,C7037   CXSSYF104   C7032-C7034,C7036,C7037   CXSSYF104   C7032-C7034,C7036,C7037   CXSSYF104   C7032-C7034,C7036,C7037   CXSSYF104   C7050   CXSSYF104   CXSSYF1			· · · · · · · · · · · · · · · · · · ·	
IMM DSEL BUCKN   SEMICONDUCTORS   C7021,C7022,C7024,C7026-C7029   CKSSYF104   C7026-C7037   CKSSYF104   C7026-C7038   CKSSYF104   C7039-C7034,C7036,C7037   CKSSYF104   C7026-C7038   C7039-C7042,C7044,C7046-C7048   CKSSYF104   C7026-C7038   C7039-C7042,C7044,C7046-C7048   CKSSYF104   C7026-C7038   C7039-C7042,C7044,C7046-C7048   CKSSYF104   C7026-C7028   CKSSYF104   C7026-C7028   CKSSYF104   C7026-C7028   CKSSYF104   C7026-C7028   C7029-C7026   C7220   C7221   C7202   C7221   C7202   C7221   C7202   C7221   C7202   C7202-C7225,C7228   CKSSYF104Z16   C7202-C7223   C7202-C7225,C7228   CKSSYF104Z16   C7202-C7223   C7202-C7225,C7228   CKSSYF104Z16   C7202-C7223   C720				CKSSYB102K50
IMM DSEL BUCKN   SEMICONDUCTORS   C7021,C7022,C7024,C7026-C7029   CKSSYF104   C7026-C7037   CKSSYF104   C7026-C7038   CKSSYF104   C7039-C7034,C7036,C7037   CKSSYF104   C7026-C7038   C7039-C7042,C7044,C7046-C7048   CKSSYF104   C7026-C7038   C7039-C7042,C7044,C7046-C7048   CKSSYF104   C7026-C7038   C7039-C7042,C7044,C7046-C7048   CKSSYF104   C7026-C7028   CKSSYF104   C7026-C7028   CKSSYF104   C7026-C7028   CKSSYF104   C7026-C7028   C7029-C7026   C7220   C7221   C7202   C7221   C7202   C7221   C7202   C7221   C7202   C7202-C7225,C7228   CKSSYF104Z16   C7202-C7223   C7202-C7225,C7228   CKSSYF104Z16   C7202-C7223   C7202-C7225,C7228   CKSSYF104Z16   C7202-C7223   C720	IMD DOEL BLOCK!		C7006,C7008,C7010-C7017,C7019	CKSSYF104Z16
Colls   PD6523A   C7032-C7034,C7034,C7036,C7037   CKSSYF104   CRSSYF104   C7039-C7042,C7044,C7046-C7048   CKSSYF104   C7039-C7042,C7036,C7036,C7036,C7036,C7039   CKSSYF104   C7039-C7042,C7036,C7036,C7036,C7036,C7036,C7039   CKSSYF104   C7039-C7044,C7046,C7046   C7039-C7044,C7046,C7046   C7039-C7044,C7046,C			C7021,C7023,C7024,C7026-C7029	CKSSYF104Z16
Colls and Filters    Colls and Filters   Cross   Cross-Cro44, Cro44, Cro46-Cro48   Cross-Fild   Cross   Cross-Fild   Cross   Cross-Fild   Cross   Cross-Fild   C	<u>SEMICONDUCTORS</u>			CKSSYF104Z16
C6602   TC74LCX125FT	C IC6601	PD6523A		CKSSYF104Z16
COILS AND FILTERS         AF6604 CHIP BEAD FILTER         ATX1058         RESISTORS           AF6604 CHIP BEAD FILTER         CCG1162         R7011,R7013,R7024,R7032,R7036         ACN1246           AF6604 F6603 EMI FILTER         CCG1162         R7015,R7023         ACN1246           R7015,R7023         RAB4CQ101         RAB4CQ101         C6604         CCSRCH221J50         R7060         RAB4CQ101           C6604         CCSRCH221J50         R7060         RAB4CQ680         C6631         CC6617,C6617,C6619,C6621         CKSSYF104Z16         Other Resistors         RS1/16S###           C6631         CC601-C6603,C6607-C6610         CKSSYF104Z16         Other Resistors         RS1/16S###           C6625-C6627,C6629,C6630         CKSSYF104Z16         IMR IF BLOCK]         SEMICONDUCTORS           RESISTORS         IC7202         SI1170BCLG           R663-R6605         ACN1251         IC7202         SI170BCLG           R6611,R6614,R6618         BCN1071         Q7206         2SA1586           R6613,R6620         RAB4CQ101J         Q7203         TC74VHC08           R6613,R6620         RS116S##J         Q7201         DTA124EUA           Other Resistors         RS1194         Q7201         RN1902           T07202,D7206         1SS355	IC6602	TC74LCX125FT	0.000 0.0.=,0.0.,0.0.0.0.0.0.0	0.10011101=10
COILS AND FILTERS         A F6604 CHIP BEAD FILTER         ATX1058         RESISTORS           A F6604 CHIP BEAD FILTER         CCG1162         R7011,R7013,R7024,R7032,R7036         ACN1246           A F6604 CHIP BEAD FILTER         CCG1162         R7015,R7023         ACN1246           R7015,R7023         RAB4CQ101         RAB4CQ101           C6604         CCSRCH221J50         R7060         RAB4CQ101           C6631         CKSSYB102K50         R7060         RAB4CQ680           C6631 C6617,C6619,C6621 CKSSYF104Z16         Other Resistors         RS1/16S###           C6625-C6627,C6629,C6630         CKSSYF104Z16         IMR IF BLOCK]         SEMICONDUCTORS           RESISTORS         IC7202         SI1170BCLG         R603-R6605         ACN1251         IC7202         SI170BCLG           R6611,R6614,R6618         BCN1071         Q7206         2SA1586         2SA1586           R6613,R6620         RAB4CQ101J         Q7206         2SA1586           R6613,R6620         RAB4CQ101J         Q7209         HN1C01FU           QTHERS         X6601 CRYSTAL         ASS1194         Q7201         RN1902           X6601 CRYSTAL         ASS1194         Q7201         CHIP FERRITE BEAD         BTX1042           C6801,IC6802         K4S643			C7050	CKSSYF104Z16
♣ F6604 CHIP BEAD FILTER         ATX1058         RESISTORS           ♣ F6601-F6603 EMI FILTER         CCG1162         R7011,R7013,R7024,R7032,R7036         ACN1246           ■ CAPACITORS         R7015,R7023         RAB4CQ101           C6632 (1016,3V)         ACG7046         R7015,R7023         RAB4CQ101           C6604         CCSRCH221J50         R706,R7016,R7018,R7070         RAB4CQ101           C6601-C6603,C6607-C6610         CKSSYF104Z16         Other Resistors         RS1/16S##           C6613-C6617,C6619,C6621-C6623         CKSSYF104Z16         [MR IF BLOCK]         SEMICONDUCTORS           RESISTORS         IC7202         SII170BCLG         TC74HCDC           R6603-R6605         ACN1251         IC7202         SII70BCLG           R6611,R6614,R6618         BCN1071         Q7206         2SA1566           R6613,R6620         RAB4CQ101J         Q7203,Q7207,Q7210         DTA124EUA           Other Resistors         RS1/16S##J         Q7201         DTC124EUA           OTHERS         Q7209         HN1C01FU           X6601 CRYSTAL         ASS1194         Q7201         RN1902           IC8801,IC6802         K4S643232H-TC60         △L7201 CHIP FERRITE BEAD         BTX1042           EMICONDUCTORS         ACG7046         C7	COILS AND FILTERS		07000	01(0011104210
CAPACITORS		ATY1058	DECICTORS	
CAPACITORS				1011/0/0
CAPACITORS         RAB4CQ101           C6632 (1016.3V)         ACG7046         R7016,R7018,R7070         RAB4CQ101           C6604         CCSRCH221,J50         R7060         RAB4CQ102           C6601-C6603,C6607-C6610         CKSSYB102K50         Other Resistors         RS1/16S###           C6601-C6603,C6607-C6610         CKSSYF104Z16         Other Resistors         RS1/16S###           C6613-C6617,C6619,C6621-C6623         CKSSYF104Z16         [MR IF BLOCK]         SEMICONDUCTORS           RESISTORS         IC7202         SII170BCLG         SII170BCLG           R6603-R6605         ACN1251         IC7201,IC7203         TC724VHC08           R6613,R6620         RAB4CQ101J         Q72003         Q7203         DT3124EUA           Other Resistors         RS1/16S##J         Q7211         DTC124EUA           OTHERS         ASS1194         Q7201         RN1902         ISS355           E         [MR IP BLOCK]         COILS AND FILTERS         AF7204-F7207         BMI FILTER         AF7209         HN1C01FU         PH F7204-F7207         BR1902         ISS355         EMI FY204-F7207         BR1902         BR1902         BR1902         BR1902         BR1902         BR1902         BR1902         BR1902         BR1902         BR	TOOUT-FOOUS EIVITILIEN	CCG1162		
C6632 (10/6.3V)         ACG7046         R7016,R7018,R7070         RAB4CQ103           C6604         CCSRCH221J50         R7060         RAB4CQ680           C6631         CKSSYB102K50         C601-C6603,C6607-C6610         CKSSYF104Z16         Other Resistors         RS1/16S###           C6613-C6617,C6619,C6621-C6623         CKSSYF104Z16         [MR IF BLOCK]         SEMICONDUCTORS           RESISTORS         IC7202         SII170BCLG         SEMICONDUCTORS           R6613,R6605         ACN1251         IC7201,IC7203         TC74VHC08           R6611,R6614,R6618         BCN1071         Q7206         2SA1586           R6613,R6620         RAB4CQ101J         Q7206         2SA1586           Other Resistors         RS1/16S##J         Q7211         DTC124EUA           OTHERS         Q7201         Q7201         DTA124EUA           OTHERS         ASS1194         Q7201         RN1902         PS3355           E         [IMR IP BLOCK]         ASS1194         Q7201         PS35355         PS3555           E         [IMR IP BLOCK]         AF204-F7207 EMI FILTER         AF1029         AF10	0.4.04.017.0.00			
C6604         CCSRCH221J50         R7060         RAB4CQ680           C6631         C6631         CKSSYB102K50         Other Resistors         RS1/16S###           C6601-C6603,C6607-C6610         CKSSYF104Z16         Other Resistors         RS1/16S###           C6613-C6617,C6619,C6621-C6623         CKSSYF104Z16         [MR IF BLOCK]           SEMICONDUCTORS           IC7202         SII170BCLG           R6603-R6605         ACN1251         IC7201,IC7203         TC74VHC08           R6611,R6614,R6618         BCN1071         Q7206         2SA1586           R6613,R6620         RAB4CQ101J         Q7201         DTA124EUA           Qther Resistors         RS1/16S##J         Q7201         DTA124EUA           OTHERS         Q7209         HN1C01FU           X6601 CRYSTAL         ASS1194         Q7209         HN1C01FU           D7202-D7206         1SS355         E           E         COILS AND FILTERS         AF7204-F7207 EMI FILTER         AF7204-F7207 EMI FILTER           SEMICONDUCTORS         AF7201-F7203,F7208 EMI FILTER         CCG1162           I COILS AND FILTERS         CCSCCH10         AF7201-F7203,F7208 EMI FILTER         CCG3162           L6801-L6804 CHIP BEAD FILTER         BTX1042 </td <td></td> <td></td> <td></td> <td>RAB4CQ101J</td>				RAB4CQ101J
C6631	C6632 (10/6.3V)	ACG7046	R7016,R7018,R7070	RAB4CQ103J
D C6601-C6603,C6607-C6610 C6613-C6617,C6619,C6621-C6623 CKSSYF104Z16  C6613-C6617,C6619,C6621-C6623 CKSSYF104Z16  C6625-C6627,C6629,C6630 CKSSYF104Z16  CC6625-C6627,C6629,C6630 CKSSYF104Z16  CC7202 SII170BCLG CC7202 SII170BCLG CC7203 TC74VHC08 SMICONDUCTORS IC7201,IC7203 TC74VHC08 25A1586 C7203,C7207,Q7210 DTA124EUA Q7201 DTC124EUA DTC126CTC1203 DTC124EUA DTC124EUA DTC124EUA DTC124EUA DTC124EUA DTC124EUA DTC126CTC203,C7207,C7208 EMI FILTER CCG1162 DTC124EUA DTC124EUA DTC124EUA DTC124EUA DTC124EUA DTC124EUA DTC124EUA DTC124EUA DTC124EUA DTC126CTC203,C7207,C7208 (10/6.3V) ACG7046 C7201,C7204,C7211,C7213,C7214 CCSSCH107 CC	C6604	CCSRCH221J50	R7060	RAB4CQ680J
D C6613-C6617,C6619,C6621-C6623 CKSSYF104Z16  C6625-C6627,C6629,C6630 CKSSYF104Z16 [MR IF BLOCK]  SEMICONDUCTORS  RESISTORS  R6603-R6605 ACN1251 IC7201,IC7203 TC74VHC06  R6611,R6614,R6618 BCN1071 Q7206 2SA1586  R6613,R6620 RAB4CQ101J Q7206 DT1424EUA  Other Resistors RS1/16S###J Q7211 DTC124EUA  OTHERS  X6601 CRYSTAL ASS1194 Q7201 RN1902  D7202-D7206 1SS355  E  [MR IP BLOCK]  SEMICONDUCTORS  IC6801,IC6802 K4S643232H-TC60 AF7204-F7207 EMI FILTER ATF1209  IC6801,IC6803 PE5504B  COILS AND FILTERS  △L6801-L6804 CHIP BEAD FILTER  △L6801-L6804 CHIP BEAD FILTER  CAPACITORS  CAPACITORS  C6801 (10/6.3V) ACG7046  C7201,C7204,C7211,C7213,C7221 CCSSCH100  C6803 CKSSYB102K50  CKSSYB102K50  C6802,C6804,C6807-C6809,C6813 CKSSYF104Z16  C68SSYF104Z16  C7209,C7215,C7220,C7225,C7228 CKSSYB102  CKSSYF104Z16  C7209,C7215,C7220,C7225,C7228 CKSSYB471	C6631	CKSSYB102K50		
C6625-C6627,C6629,C6630	C6601-C6603,C6607-C6610	CKSSYF104Z16	Other Resistors	RS1/16S###J
C6625-C6627,C6629,C6630	C6613-C6617,C6619,C6621-C6623	CKSSYF104Z16		
RESISTORS   R603-R6605   ACN1251   IC7202   SII170BCLG     R6611,R6614,R6618   BCN1071   Q7206   2SA1586     R6613,R6620   RAB4CQ101J   Q7206   2SA1586     R6613,R6620   RAB4CQ101J   Q7203,Q7207,Q7210   DTA124EUA     Other Resistors   RS1/16S##J   Q7211   DTC124EUA     OTHERS	D			
RESISTORS   R603-R6605   ACN1251   IC7202   SII170BCLG     R6611,R6614,R6618   BCN1071   Q7206   2SA1586     R6613,R6620   RAB4CQ101J   Q7206   2SA1586     R6613,R6620   RAB4CQ101J   Q7203,Q7207,Q7210   DTA124EUA     Other Resistors   RS1/16S##J   Q7211   DTC124EUA     OTHERS	C6625-C6627 C6629 C6630	CKSSYF104716	IMB IE BLOCKI	
RESISTORS   IC7202   SII170BCLG	00020 00027,00020,00000	01.0011 10.1210		
R6603-R6605 ACN1251 IC7201,IC7203 TC74VHC08 R6611,R6614,R6618 BCN1071 Q7206 2SA1586 R6613,R6620 RAB4CQ101J Q7206 2SA1586 Other Resistors RS1/16S##J Q7211 DTC124EUA  OTHERS  X6601 CRYSTAL ASS1194 Q7201 RN1902 D7202-D7206 1SS355  E  [MR IP BLOCK] SEMICONDUCTORS IC6801,IC6802 K4S643232H-TC60 PE5504B	DECICTORS			
R6611,R6614,R6618 R6613,R6620 Other Resistors RS1/16S###J  OTHERS X6601 CRYSTAL ASS1194  COILS AND FILTERS IC6801,IC6802 IC6803  COILS AND FILTERS AL6801-L6804 CHIP BEAD FILTER   COILS AND FILTERS ACG7046 CCSSCH100 CC8863  CC8801 (10/6.3V) CC8863  CC8801 (10/6.3V) CC8815-C6801, C6821, C6824-C6828 CCKSSYP5104Z166 CCRSSYP5104Z166 CCRSSYP5104Z166 CCRSSYP5104Z166 CCRSSYP5104Z166 CCRSSYP5104Z166 CCRSSYP5104Z166 CCRSSYP6104Z166 CCCSSCH100 CCRSSYP6104Z166 CCRSSYP6			IC7202	SII170BCLG64
R6613,R6620 RAB4CQ101J Q7203,Q7207,Q7210 DTA124EUA  Other Resistors RS1/16S###J Q7201 DTC124EUA  OTHERS  X6601 CRYSTAL ASS1194 Q7201 RN1902 D7202-D7206 1SS355   E  [MR IP BLOCK] SEMICONDUCTORS IC6801,IC6802 K4S643232H-TC60 PE5504B			,	TC74VHC08FTS1
Other Resistors    Coll   Capacitors   Capa			Q7206	2SA1586
Other Resistors         RS1/16S###J         Q7211         DTC124EUA           OTHERS         X6601 CRYSTAL         ASS1194         Q7209         HN1C01FU           X6601 CRYSTAL         ASS1194         Q7201         RN1902           D7202-D7206         1SS355           E         [MR IP BLOCK]         COILS AND FILTERS           SEMICONDUCTORS         AF7204-F7207 EMI FILTER         ATF1209           IC6801,IC6802         K4S643232H-TC60         AF7201 CHIP FERRITE BEAD         BTX1042           IC6803         PE5504B         AF7201-F7203,F7208 EMI FILTER         CCG1162           IC6804         CHIP BEAD FILTER         BTX1042         C7203,C7207,C7208 (10/6.3V)         ACG7046           CAPACITORS         C7201,C7204,C7211,C7213,C7214         CCSSCH100         CCSSCH100           C6801 (10/6.3V)         ACG7046         C7216,C7217,C7219,C7221         CCSSCH100           C6803         CKSSYB102K50         CKSSYB102         CKSSYB102           F         C6802,C6804,C6807-C6809,C6813         CKSSYF104Z16         C7209,C7215,C7220,C7225,C7228         CKSSYB471	R6613,R6620	RAB4CQ101J	Q7203,Q7207,Q7210	DTA124EUA
OTHERS         Q7209         HN1C01FU           X6601 CRYSTAL         ASS1194         Q7201         RN1902           D7202-D7206         1SS355           E         [MR IP BLOCK]         COILS AND FILTERS           SEMICONDUCTORS         AF7204-F7207 EMI FILTER         ATF1209           IC6801,IC6802         K4S643232H-TC60         AL7201 CHIP FERRITE BEAD         BTX1042           IC6803         PE5504B         AF7201-F7203,F7208 EMI FILTER         CCG1162           ICCOILS AND FILTERS         C7203,C7207,C7208 (10/6.3V)         ACG7046           C7226,C7227         CCSCH100           CAPACITORS         C7201,C7204,C7211,C7213,C7214         CCSSCH100           C7201,C7204,C7211,C7213,C7214         CCSSCH100         C7216,C7217,C7219,C7221         CCSSCH100           C6801 (10/6.3V)         CKSSYB102K50         C7223         CKSSYB102           F         C6802,C6804,C6807-C6809,C6813         CKSSYF104Z16         C7209,C7215,C7220,C7225,C7228         CKSSYB471	Other Resistors	RS1/16S###J	•	DTC124EUA
X6601 CRYSTAL   ASS1194   Q7201   D7202-D7206   1SS355     E				
X6601 CRYSTAL   ASS1194   Q7201   D7202-D7206   1SS355     E	OTHERS		Q7209	HN1C01FII
E [MR IP BLOCK] SEMICONDUCTORS IC6801,IC6802 IC6803  ■ COILS AND FILTERS		ASS1194		
E [MR IP BLOCK] SEMICONDUCTORS  IC6801,IC6802 IC6803  E COILS AND FILTERS  A F7204-F7207 EMI FILTER ATF1209 A L7201 CHIP FERRITE BEAD BTX1042 A F7201-F7203,F7208 EMI FILTER CCG1162  ■ COILS AND FILTERS A L6801-L6804 CHIP BEAD FILTER BTX1042  CAPACITORS  CAP	AUUUT ONTOTAL	A001194		
[MR IP BLOCK]         SEMICONDUCTORS       AF7204-F7207 EMI FILTER       ATF1209         IC6801,IC6802 IC6803       K4S643232H-TC60 PE5504B       AL7201 CHIP FERRITE BEAD BTX1042       BTX1042         IC6803       PE5504B       AF7201-F7203,F7208 EMI FILTER       CCG1162         ICOILS AND FILTERS       CAPACITORS       C7203,C7207,C7208 (10/6.3V) ACG7046       ACG7046         C7226,C7227       CCSSCH100       C7226,C7227       CCSSCH100         C6801 (10/6.3V)       ACG7046       C7216,C7217,C7219,C7221       CCSSCH100         C6863       CKSSYB102K50       C7223       CKSSYB102         F       C6802,C6804,C6807-C6809,C6813       CKSSYF104Z16       C7209,C7215,C7220,C7225,C7228       CKSSYB471	E		שובטב-שובטס	100000
SEMICONDUCTORS         IC6801,IC6802       K4S643232H-TC60			OOU O AND EU TEDO	
IC6801,IC6802       K4S643232H-TC60			-	
IC6801,IC6802       K4S643232H-TC60	<b>SEMICONDUCTORS</b>			ATF1209
IC6803       PE5504B       ⚠ F7201-F7203,F7208       EMI FILTER       CCG1162         COILS AND FILTERS         ⚠ L6801-L6804       CHIP BEAD FILTER       BTX1042       C7203,C7207,C7208 (10/6.3V)       ACG7046         C7201,C7204,C7211,C7213,C7214       CCSSCH100         CAPACITORS       C7201,C7204,C7211,C7213,C7214       CCSSCH100         C6801 (10/6.3V)       ACG7046       C7216,C7217,C7219,C7221       CCSSCH100         C6863       CKSSYB102K50       C7223       CKSSYB102         F       C6802,C6804,C6807-C6809,C6813       CKSSYF104Z16       C7209,C7215,C7220,C7225,C7228       CKSSYB471		K4S643232H-TC60		BTX1042
■ COILS AND FILTERS	•		♠ F7201-F7203,F7208 EMI FILTER	CCG1162
ACG7046         C7203,C7207,C7208 (10/6.3V)         ACG7046           C7226,C7227         CCSSCH100           CAPACITORS         C7216,C7211,C7213,C7214         CCSSCH100           C6801 (10/6.3V)         ACG7046         C7216,C7217,C7219,C7221         CCSSCH100           C6863         CKSSYB102K50         C7223         CKSSYB102           F         C6802,C6804,C6807-C6809,C6813         CKSSYF104Z16         C7209,C7215,C7220,C7225,C7228         CKSSYB471	.55555			
ACG7046         C7203,C7207,C7208 (10/6.3V)         ACG7046           C7226,C7227         CCSSCH100           CAPACITORS         C7216,C7211,C7213,C7214         CCSSCH100           C6801 (10/6.3V)         ACG7046         C7216,C7217,C7219,C7221         CCSSCH100           C6863         CKSSYB102K50         C7223         CKSSYB102           F         C6802,C6804,C6807-C6809,C6813         CKSSYF104Z16         C7209,C7215,C7220,C7225,C7228         CKSSYB471	COILS AND EILTEDS		CAPACITORS	
C7226,C7227 CCSSCH100  CAPACITORS  C6801 (10/6.3V) ACG7046 C7216,C7217,C7219,C7221 CCSSCH100  C6863 CKSSYB102K50 C7223 CKSSYB102  F C6802,C6804,C6807-C6809,C6813 CKSSYF104Z16  C6815-C6817,C6821,C6824-C6828 CKSSYF104Z16  C7209,C7215,C7220,C7225,C7228 CKSSYB471	_	DT)/40.45		ACG7046
CAPACITORS         C7201,C7204,C7211,C7213,C7214         CCSSCH101           C6801 (10/6.3V)         ACG7046         C7216,C7217,C7219,C7221         CCSSCH101           C6863         CKSSYB102K50         C7223         CKSSYB102           F         C6802,C6804,C6807-C6809,C6813         CKSSYF104Z16         C7209,C7215,C7220,C7225,C7228         CKSSYB471	∠I\L6801-L6804 CHIP BEAD FILTER	B1X1042		
C6801 (10/6.3V) ACG7046 C7216,C7217,C7219,C7221 CCSSCH10: C6863 CKSSYB102K50 C7223 CKSSYB102K50			•	
C6801 (10/6.3V) ACG7046 C7216,C7217,C7219,C7221 CCSSCH10 <sup>-</sup> C6863 CKSSYB102K50 C7223 CKSSYB102  F C6802,C6804,C6807-C6809,C6813 CKSSYF104Z16 C6815-C6817,C6821,C6824-C6828 CKSSYF104Z16 CKSSYF104Z16 C7209,C7215,C7220,C7225,C7228 CKSSYB471	<u>CAPACITORS</u>			CCSSCH101J50
C6863 CKSSYB102K50 CKSSYB102 F C6802,C6804,C6807-C6809,C6813 CKSSYF104Z16 CKSSYF104Z16 CKSSYF104Z16 CKSSYF104Z16 CKSSYF104Z16 CKSSYB471		ACG7046		CCSSCH101J50
F C6802,C6804,C6807-C6809,C6813 CKSSYF104Z16 C7209,C7215,C7220,C7225,C7228 CKSSYB471	, ,		C7223	CKSSYB102K50
C6815-C6817 C6824-C6828 CKSSYE104716 C7209,C7215,C7225,C7228 CKSSYB471				
00010 00011,000E1,000ET 000E0 ONOUTI 10TE10				CKSSYB471K50
C6830,C6831,C6834,C6835 CKSSYF104Z16 C7202,C7205,C7206,C7210,C7212 CKSSYF104Z16			C7202,C7205,C7206,C7210,C7212	CKSSYF104Z16
U000U.U0001.U0004.U0000 UNO01F1U4Z10	00000,00001,00004,00000	UNUU 11 104210		CKSSYF104Z16
			•	-
20	20		20011	
30 PDP-R06U	30	PDP-F	R06U	

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Mark No. Description RESISTORS	Part No.	Mark No. Description RESISTORS	Part No.
R7215 R7216	RAB4CQ101J RS1/16S5100F	All Resistors	RS1/16S###J
Other Resistors	RS1/16S###J	OTHERS	01/00000
<u>THERS</u>		CN8001 CONNECTOR	CKS3826
CN7201 SOCKET (20P) CN7202 DVI SOCKET (24P)	AKP1226 AKP1250		
		FRONT ASSY	
MR RGB SW BLOCK]		SEMICONDUCTORS IC7801	BR24C21FJ
SEMICONDUCTORS		IC7801	TC74VHC08FTS1
IC4701	NJM12904V	Q7801-Q7803,Q7806-Q7808	2SC4116
IC4702	R2S11001FT	Q7804,Q7805	DTC124EUA
IC4703 Q4706-Q4709	TC7WH123FU 2SA1586	D7813	1SS301
Q4703	2SC4116	D7805-D7807,D7816-D7818	1SS302
		D7803-D7807,D7810-D7818	UDZS5R1(B)
Q4704	2SC5233	D7811,D7812,D7814,D7815	UDZS5R6(B)
Q4701	DTA124EUA	D7804,D7808	UDZS9R1(B)
Q4702 Q4705	DTC124EUA HN1A01FU	0.4.04.04.70.70	
D4701,D4708	1SS301	CAPACITORS	4007046
- , - <del>-</del>		C7821,C7827 (10/6.3V) C7829,C7830 (10/6.3V)	ACG7046 ACG7046
<u>CAPACITORS</u>		C7829,C7830 (10/6.3V) C7822,C7823	CCSRCH220J50
C4737,C4741,C4755 (10/6.3V)	ACG7046	C7841,C7844,C7846	CEHVKW100M16
C4702	CCSRCH331J50	C7803,C7804	CKSRYB103K50
C4725,C4727 C4728	CCSRCH680J50 CEHVKW101M6R3	07005 07000 07000 07010	OL(OD) (D 4 05) ( ) 2
C4728 C4705	CEHVKW220M16	C7805,C7808,C7809,C7813 C7831,C7832,C7834,C7839,C7842	CKSRYB105K10 CKSRYB105K10
- ·- <del></del>		C7831,C7832,C7834,C7839,C7842 C7845	CKSRYB105K10
C4711-C4716,C4723,C4729-C4731	CKSRYB105K10	C7801	CKSRYB473K16
C4734,C4738,C4739,C4743,C4754	CKSRYB105K10	C7802,C7820,C7824,C7840,C7843	CKSSYF104Z16
C4706 C4703	CKSRYB224K10 CKSRYB473K16	07047 07049	01/00/15/0/5
C4703 C4717-C4721,C4724,C4726,C4732	CKSSYB103K16	C7847,C7848 C7819,C7835,C7849	CKSSYF104Z16 DCH1165
C4735,C4736,C4742,C4750-C4753	CKSSYB103K16	RESISTORS	
C4707-C4710,C4740,C4744,C4745	CKSSYF104Z16	R7801,R7803,R7809,R7823-R7825	RS1/16S75R0F
C4749	CKSSYF104Z16	R7857-R7859	RS1/16S75R0F
C4701,C4704	DCH1165	Other Resistors	RS1/16S###J
RESISTORS		OTHERS	
R4756	RS1/16S1800F	OTHERS	<b>AKB1202</b>
R4746	RS1/16S5600F	JA7803 PIN JACK (3P) JA7805 PIN JACK (3P)	AKB1303 AKB1305
R4728-R4730,R4748-R4750	RS1/16S75R0F	CN7803 12P FFC CONNECTOR	AKM1233
Other Resistors	RS1/16S###J	CN7804 50P CONNECTOR	AKM1236
OTHERS		CN7806 15P D-SUB SOCKET	AKP1214
JA4701 PIN JACK (9P)	AKB1329	JA7801 4P MINI DIN SOCKET (S)	AKP1238
		,	
LED ASSY		POWER SUPPLY UNIT	
SEMICONDUCTORS		POWER SUPPLY Unit has no service par	rt.
Q8003	DTA124EUA		
Q8004 Q8002	DTC124EUA RN2902		
D8001	SML-311DT		
D8003	SML-311UT		
D8004	SML310BA1T		
SWITCHES AND RELAYS	ACC1000		
S8001-S8007	ASG1088		
CAPACITORS	000001404150		
C8005,C8006 C8001,C8007	CCSRCH101J50 CKSSYF104Z16		
C0001,C000/	UN33171U4Z10		

PDP-R06U

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# 6. ADJUSTMENT

1. At shipment, the unit is adjusted to its best conditions. Normally, it is not necessary to readjust even if an assembly is replaced. Replacement of individual components on the circuitboard can cause malfunction and/or failure. If replacement is necessary, the assembly must be replaced.

3

2. Use a stable AC power supply.

# 6.1 POSSIBLE CASES WHERE READJUSTMENT IS REQUIRED

# ■ When any of the following assemblies is replaced

POWER SUPPLY Unit No adjustment required MR MAIN Assy No adjustment required MR DTB Assy No adjustment required However, HOST ID is changed. Please tell a customer about new HOST ID. Refer to the following note and instruction manual. PC Card Unit No adjustment required Other assemblies No adjustment required

# ■ When any part in the following assemblies is replaced

POWER SUPPLY Unit replacement is allowed. Replacement of components IC4801, IC5202, IC5207, MR MAIN Assy

IC6003 and IC6201 on the circuitboard can cause malfunction and/or failure. If replacement is necessary, the assembly must be replaced.

The assembly must be replaced as a unit, and no part

The assembly must be replaced as a unit, and no part MR DTB Assy replacement is allowed.

The assembly must be replaced as a unit, and no part PC Card Unit replacement is allowed.

Other assemblies No adjustment required

# Adjustment items

- 1 Audio Level Adjustment
- ② Audio Level Adjustment
- 3 MSP Adjustment
- 4 MSP Adjustment

### Note: Checking the Cable Card ID

The Media Receiver has a slot for a cable card that is used for managing your information by the cable TV company. The following procedure allows you to check your Cable Card ID and the Host ID.

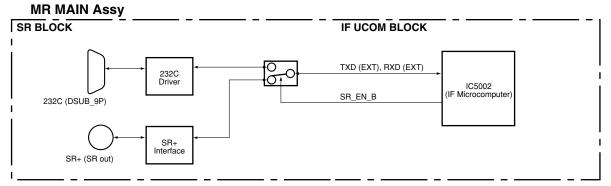
- 1. Press HOME MENU.
- 2. Select "Tuner Setup". ( ♠/ ♦ then ENTER)
- 3. Select "Channel Setup". (←/→ then ENTER)
- 4. Select "POD ID". (♠/♦)
  - The Host ID and Cable Card ID appear.
- 5. Press HOME MENU to exit the menu.

PDP-R06U

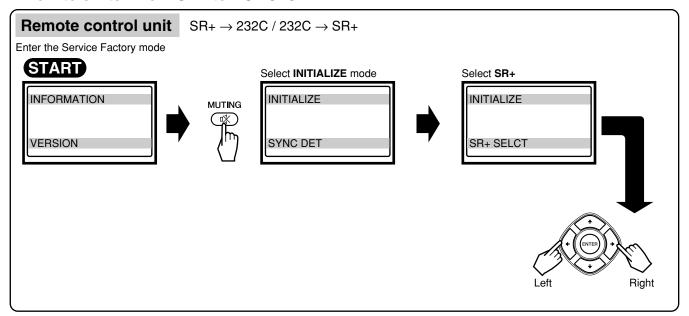
6.2 USING RS-232C COMMANDS

For the PDP-4360HD and PDP-5060HD series Plasma Displays, the circuitry is structured as shown in the diagram below to support the SR+ system. Controlling with either the SR+ system or RS-232C commands can be selected. As the SR+ system is selected at shipment, to control with RS-232C commands in servicing it is necessary to switch the paths. After servicing, be sure to return the setting to the SR+ system.

# Rough diagram of switching between SR+ and RS-232C



## How to switch from SR+ to RS-232C



Tips: How to change the SR+/RS-232C setting without entering Service Factory mode

Hold the **VOLUME** ⊿+ or ⊿- key on the remote control unit pressed for 3-10 seconds during Standby mode. Then within 3 seconds after the key is released, hold the **2-screen □** key on the remote control unit pressed for 3-10 seconds. Then within 3 seconds after the key is released, use the SET key on the remote control unit to set to RS-232C (the baud rate last selected is chosen) or the **HOME MENU** key to set to SR+.

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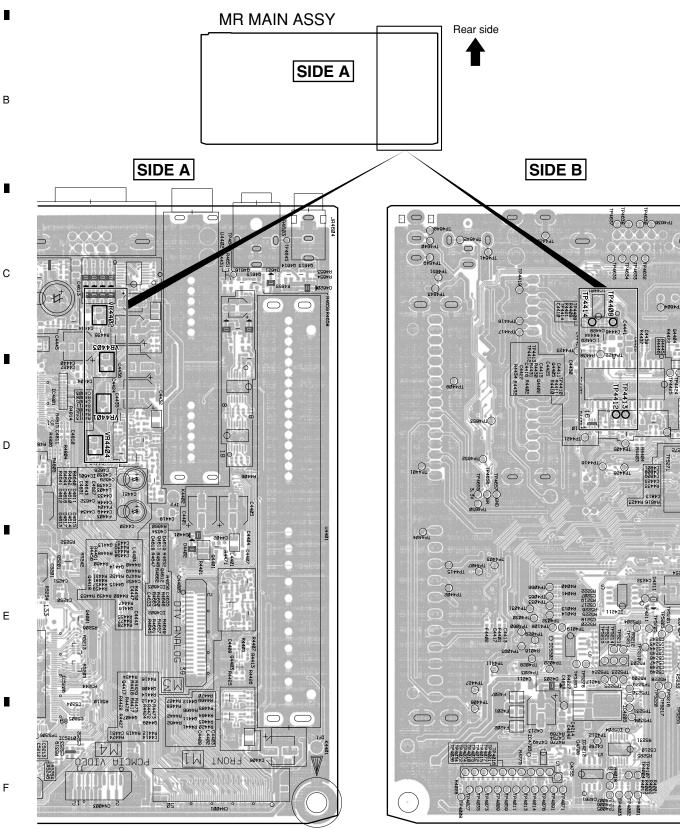
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If readjustment is necessary because of adjustment error at shipment, perform adjustments as shown below.

# Adjustment Points

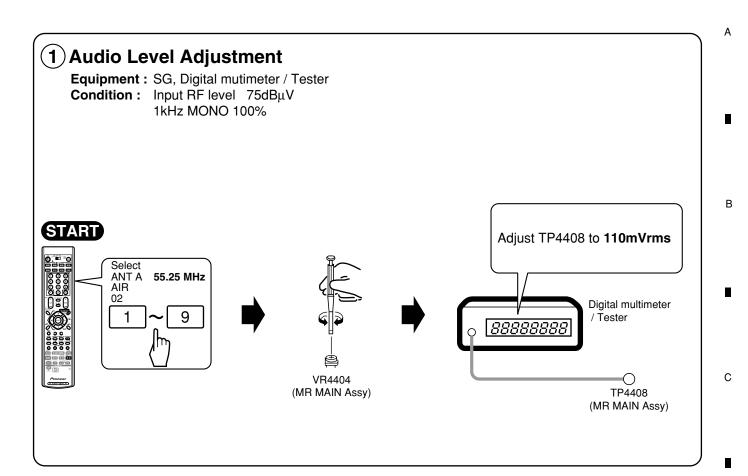


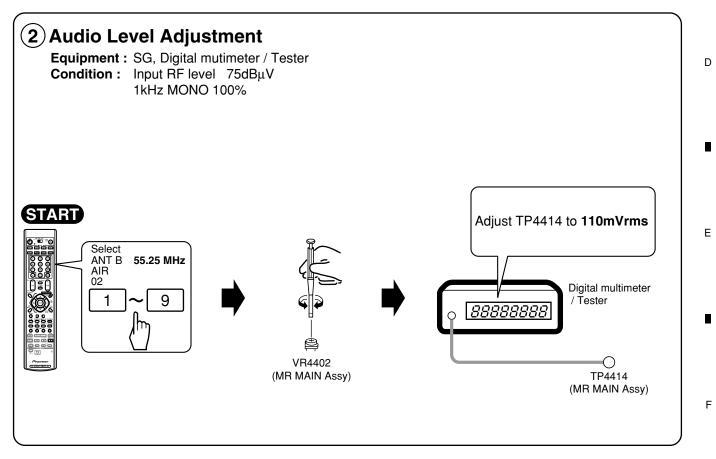
34

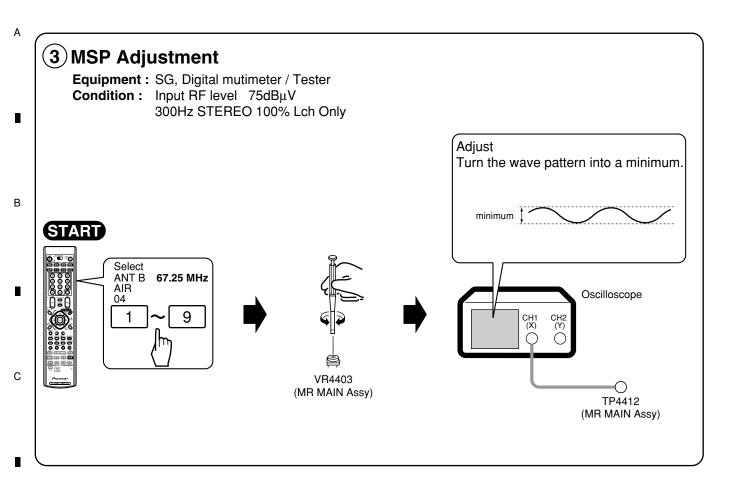
2

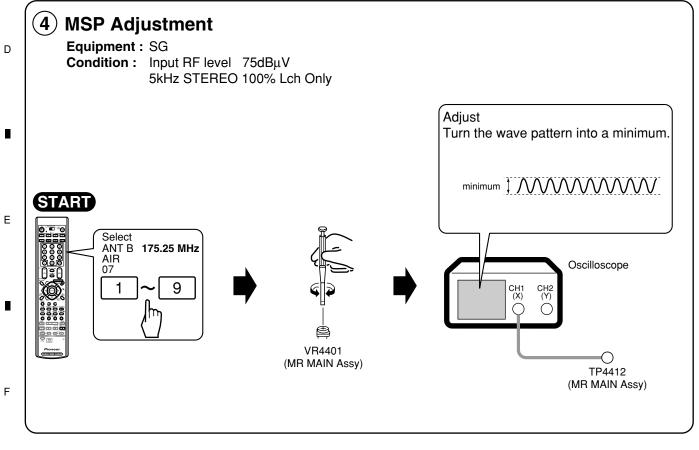
PDP-R06U

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PDP-R06U

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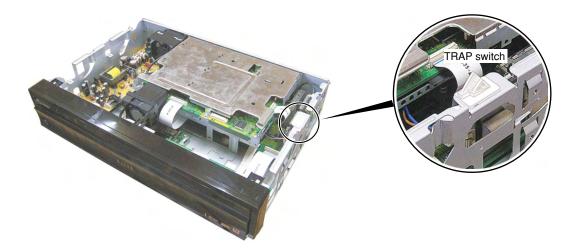
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For video data transmission from the Media Receiver to the PDP-436U and PDP-506U-series Plasma Displays, digital signals are used. Therefore, this unit adopts the HDCP (High-bandwidth Digital Content Protection) system for copyright protection. This unit is also provided with a detection switch (TRAP switch) that will prohibit the unit from being turned on again "if the upper plate of the unit is accidentally opened," in order to prevent the panel technology from being leaked out.

The TRAP switch is disabled while the unit is turned off.

When performing internal diagnosis of the PDP, fix the switch to the OFF position using adhesive tape before turning on the unit. After servicing, be sure to remove the adhesive tape.



## 6.5 SERVICING USING ONLY THE MEDIA RECEIVER

For servicing of the PDP-436HD and PDP-506HD-series Plasma Display using only the Media Receiver, the following two methods can be used:

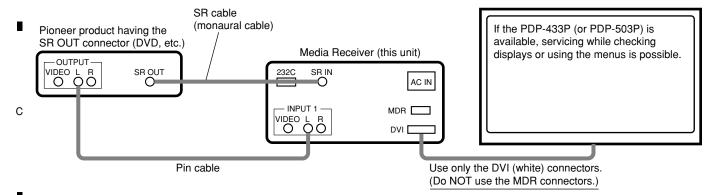
#### Remote controlling using SR connections

#### **About connections**

Connect the SR OUT connector of a Pioneer product having that connector (a DVD in the following example) and the SR IN connector of the

Media Receiver, using the SR cable. As the remote control sensor is not provided with the Media Receiver, this connection is required for using the remote control unit if the panel is not available. In this case, aim the remote control unit at the remote control sensor of the device (DVD in this case).

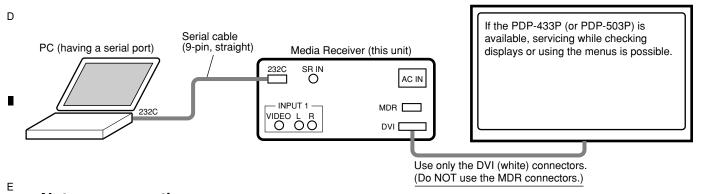
- Connect either the audio or the video output of the device (DVD in the example) and the corresponding audio or video input of the Media Receiver, using a cable with phono plugs. This connection is required in order to use ground in common with the SR cable, because with the SR cable connection the ground connection for signal reference is not available. In the example, the audio L channel is used, but the audio R channel or video can be used instead.
- If the plasma display for a previous model, such as the PDP-435P or PDP-505P, is available, servicing while checking displays or using the menus is possible. For this, connect only the DVI connectors (white) of the Media Receiver and the plasma display. The MDR connector of the Media Receiver must not be used, even though it has the same shape and number of pins, because signals assigned to the connectors



### RS-232C control using a PC

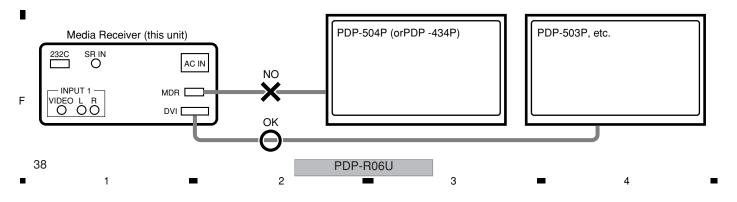
In this case the setting is RS-232C 38400bps, and the setting of "6.2. USING RS-232C COMMANDS" is not related. Please set baud rate of PC in 38400bps.

For connection with the PC, use a straight cable.



#### Note on connection

If the MDR connector of the PDP-436HD or PDP-506HD-series is used, it is considered that the PDP-436P (or PDP-506P) is connected, and the Media Receiver operates on such precondition, **which may result in a failure of the Media Receiver. Be sure not to connect to the MDR connector.** (Do NOT use the MDR connector when servicing the Media Receiver alone.)



To operate in Service Factory mode, use the supplied remote control unit.

### ■ How to enter Service Factory Mode

While in Standby mode, follow the below procedures with the remote control to enter Service Factoy mode.

- 1. Press the [DISPLAY] key.
- 2. 3 second counter will start.
- 3. After 3 seconds, press [ LEFT ] key.

(If no operation is done within 10 seconds, the Service

4. 5 Second counter will start.

- 5. Before 5 second counter ends, press [ UP ] key.
- 6. Before 5 second counter ends, press [ LEFT ] key.
- 7. Before 5 second counter ends, press [RIGHT] key.
- 8. Before 5 second counter ends, press [ POWER ] key.
- Factory routine is cleared, and the standby mode is returned) 9. If the prodcedure is correct with the given time, the Service Factory mode is up and ready.
- \* During step 3 to 8, if other operations took place, the Service Factory routine is cleared.
- \* If the counter's time is up, normal standby mode is returned.
- \* If TV Guide On Screen's "Auto Guide" is "on", set this setting to "off" before starting the procedure. If this setting is left "on", Service Factory mode will not be on.

# Operation in Service Factory mode

### Functions whose settings are set to OFF

The settings for the following functions are set to OFF when Service Factory mode is entered (including when the "FAY" command is received):

- Two-screen operations (input function set on the main side is selected)
- P ZOOM
- STILL
- Detection of the TRAP switch (The log in the EEPROM is retained.)

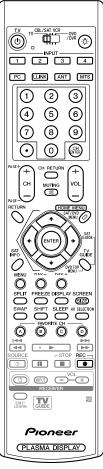
#### User data

User data will be treated as follows:

- · User data on picture- and audio-quality adjustments are not reflected, and factory-preset data are output (user data will be retained in memory). When the unit enters Factory mode, the current audio-quality adjustment data will still be retained in memory.
- · As to data on various settings, user data will be applied to the items that are associated with signal format change (screenize switching, etc.).
- · Data on screen (i.e., screen position; meaning clock dividers, and not including data on screen size) are reset to the default values (data stored in memory will be retained). Screen size will be retained.

## ■ Remote control codes in Service Factory mode

SR Function	Main Function	Remarks
Muting	Switching the main items	Shifting to the next main item (top)
DOWN	Switching the subtitled items	Shifting downward to the next subtitled item
UP	Switching the subtitled items	Shifting upward to the next upper layer
RIGHT	Decreasing the adjustment value	Decreasing the adjustment value
LEFT	Increasing the adjustment value	Increasing the adjustment value
SET	Switching layers	Shifting downward or upward to the next lower or upper layer
INPUT Selecting input Shifting the input to the next function		Shifting the input to the next function
INPUTxx	Selecting input	Switching the input to xx
CH+	Increasing the channel number	Advancing a preset channel (effective when Function is set to TV)
СН-	Decreasing the channel number	Turning a preset channel backward (effective when Function is set to TV)
Numeric keys	Function: TV	Function: TV (previously selected channel number is selected)
POWER	Power OFF	Turning the power off
FACTORY	Factory OFF	Turning Service Factory mode off
MENU	Menu ON	Turning Service Factory mode off and Menu mode on



8

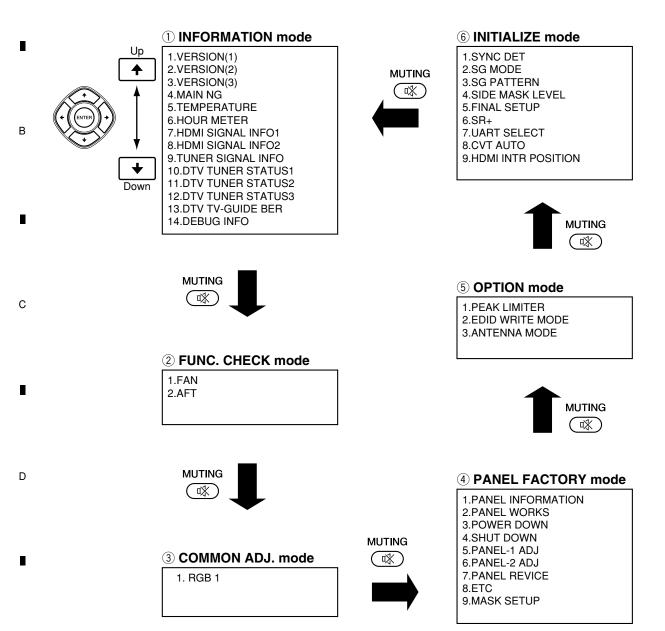
39

В

С

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# ■ Changes of the Service Factory menus

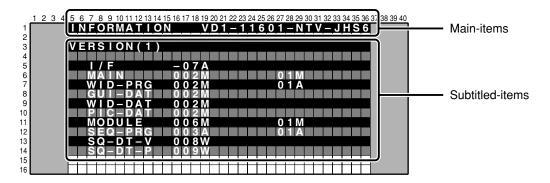


Note: Details of the Panel Factory Mode, refer to the Panel's service manual.

40

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# **■** Indications in Service Factory mode



#### **■** Main-item indications

Four parameters are displayed:



#### 1 Input function

Input Functions	On-Screen Display
VIDEO 1- 4	VD 1 - 4
Terrestrial Wave A	ARA
Terrestrial Wave B	ARB
Cable A	CBA
Cable B	CBB
PC	PC
PC Card	PCC

#### 2 SIG mode and screen size

Note: See SIG-Mode Tables. (See next page.)

#### **3** Color system and signal type

<b>Color System and Signal Type</b>		On-Screen Display
NTSC	Composite input	NTV
	S-connector input	NTS
Y/CB/CR		CBR
Y/PB/PR		PBR
RGB		RGB
Digital video signal		DIG

└ ④ Option (Destination, Panel Generation, etc.)

Options	On-Screen Display
HD system in North America (Regular)	ATS6
HD system in North America (ELITE)	AHS6

41

В

С

D

Ε

PDP-R06U

7

#### • SIG-Mode and Screen Size (by User is displayed)

**1st and 2nd charecters :** SIG-Mode (resolution) **3rd and 4th charecters :** SIG-Mode (refresh rate)

**5th charecter** : Setting of the screen size that user configured.

#### SIG-Mode table for video signals (resolutions and V frequencies)

1st - 4th Character		Signal Type	Vertical Frequency Fv (Hz)	Horizontal Frequency Fh (kHz)
10	60	SDTV*525i	60.000	15.750
20	60	SDTV*525p	60.000	31.500
30	60	HDTV*1125i	60.000	33.750
40	60	HDTV*750p	60.000	45.000

3

## SIG-Mode table for PC signals (resolutions and V frequencies)

1st - 4th	Character	Signal Type	Vertical Frequency Fv (Hz)	Horizontal Frequency Fh (kHz)
C1	70	720x400	70.087	31.469
	60		59.940	31.469
C2	72	640x480	72.809	37.861
	75		75.000	37.500
	56		56.250	35.1556
C4	60	900,4000	60.317	37.879
L C4	72 75	800x600	72.188 48.07	48.077
			75.000	46.875
	60		60.004	48.363
C7	70	1024x768	70.069	56.476
	75		75.029	60.023
	56		56.250	45.113
C8	60	1280x768	59.833	47.986
	70		70.000	56.137

#### Selection of the screen size by the user is displayed.

5th Character	GUI Notation	VIDEO	PC	Remarks
0	DOT BY DOT	-	•	
1	4:3	•	•	
2	FULL(FULL1)	•	•	
3	ZOOM	•	-	
4	CINEMA	•	_	
5	WIDE	•	_	
8	FULL2	•	•	

•: supported, -: unsupported

40

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# **■** Service Factory Menus

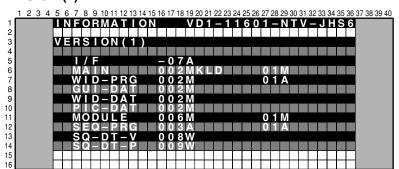
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# **1) INFORMATION mode**

#### Operation items

No.	Function / Display	Context	RS-232C
1	VERSION (1)	The flash memory versions for each device are displayed. (common part)	QS1
2	VERSION (2)	The flash memory versions for each device are displayed. (individual part)	QS6
3	VERSION (3)	The flash memory versions for each device are displayed. (individual part)	QS6
4	MAIN NG	The shutdown generated on Media Receiver side and its time of occurrence are displayed.	QNG
5	TEMPERATURE	The information of temperature and fan status on Media Receiver side is displayed.	QMT
6	HOUR METER	The Cumulative power-on time to the Media Receiver is displayed.	-
7	HDMI SIGNAL INFO 1	The file information of HDMI series are displayed.	-
8	HDMI SIGNAL INFO 2	The file information of HDMI series are displayed.	-
9	TUNER SIGNAL INFO	The signal information on TUNER is displayed.	-
10	DTV TUNING STATUS 1	Digital broadcast information and status is displayed upon receiving digital broadcast signal.	-
11	DTV TUNING STATUS 2	Digital broadcast information and status is displayed upon receiving digital broadcast signal.	-
12	DTV TUNING STATUS 3	Digital broadcast information and status is displayed upon receiving digital broadcast signal.	-
13	DTV TV-GUIDE BER	TV-Guide Bit Error Rate Information.	-
14	DEBUG INFO	Debug Information.	-

#### 1. VERSION (1)



Flash memory on Device	On-Screen Display
IF microcomputer	I/F
Main microcomputer	MAIN
Program for CARRERA-MANTA	WID-PRG
GUI data for CARRERA-MANTA	GUI-DAT
Enhanced data for CARRERA-MANTA.	WID-DAT
Picture Quality data for CARRERA-MANTA	PIC-DAT
Module microcomputer (for the PDP)	MODULE
Program for ASTRA-MANTA (for the PDP)	SEQ-PRG
Sequence data for ASTRA-MANTA Video	SQ-DT-V
Sequence data for ASTRA-MANTA PC	SQ-DT-P

43

В

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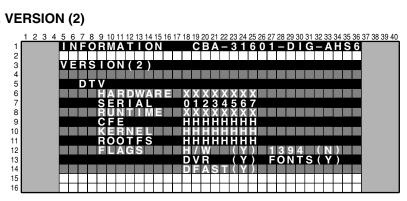
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PDP-R06U

## 2. VERSION (2)

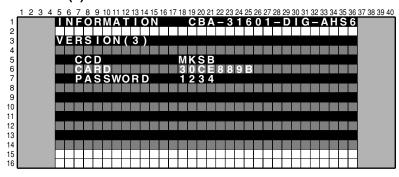
В

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Flash Device	On - Screen Display	Version Display	Elite	Regular
DTV Hardware Version	HARDWARE	8 character	0	0
DTV Hardware Serial	SERIAL	8 character	0	0
DTV Runtime Version	RUNTIME	8 character	0	0
CFE Version	CFE	8 character	0	0
KERNEL Version	KERNEL	8 character	0	0
ROOTFS Version	ROOTFS	8 character	0	0
FLAGS	FLAGS	5 character	0	0

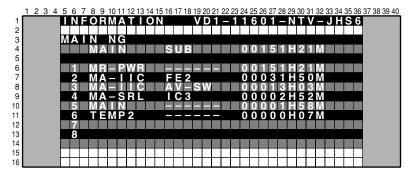
#### 3. VERSION (3)



Flash Device	On - Screen Display	Version Display	Elite	Regular
CCD-UCOM Version	CCD	4 character	0	0
CARD Version	CARD	8 character	0	×
User Password	PASSWORD	4 character	0	0

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#### 4. MAIN NG



#### • Media Receiver NG information

OSD: MAIN	OSD: SUB	Cause of Shutdown
MODULE		Failure of communication to Module microcomputer
MA-SRL		3-wire Serial Communication of Main microcomputer.
	IF	Communication failure of IF microcomputer
	MULTI1	MANTA communication failure (MULIT1)
	I/P	MANTA communication failure (I/P)
	D-SEL	MANTA communication failure (D-SEL)
MA-IIC		IIC communication failure of Main microcomputer
	FE1	Analog Tuner 1 (Front End 1)
	FE2	Analog Tuner 2 (Front End 2)
	MPX	MPX
	AV-SW	AV Switch
	RGB-SW	RGB Switch
	CCD	CCD
	GCR	GCR
	M-VDEC	Main VDEC
	ADC	AD/PLL
	HDMI	HDMI
	PLK-T	TMDS Tx
	PLK-R	TMDS Rx
	MA-EEP	64k EEPROM
MAIN		Communication failure of Main microcomputer and Unknown Error
FAN		Fan stopped
TEMP2		Abnormally high temperature at MR.
DTUNER		Failure of Digital Tuner
	PS/RST	Failure to DTB Starting
	DEVICE	DTB Device Error
	TV-G	TV-Guide Error
M-DCDC		Abnormally in RST2 of MR (power decrease of DC-DC converter)
HOME-G		Failure at Home Gallery
	CD-COM	Failure of PC Card Communication
	CD-DEV	Failure of PC Card
	CD-RST	PC Card Reset NG

45

В

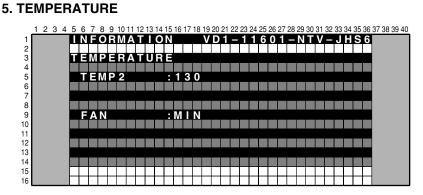
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PDP-R06U

:



Displays the temperature and FAN speed of the Media Receiver.

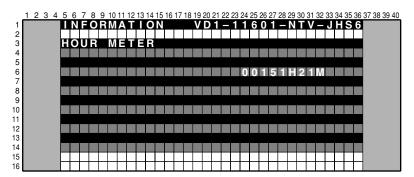
TEMP2: Displays the value from 000 to 255 of the readout data from the Media Receiver's built-in heat sensor.

FAN: The value of the Fan output is displayed. Either STOP, MIN, MAX is displayed.

STOP: FAN stop, MIN: FAN Speed Low, MAX: FAN Speed High

#### 6. HOUR METER

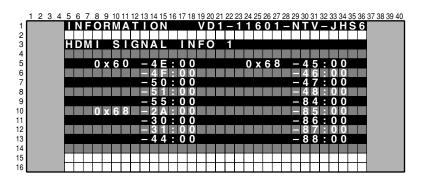
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- Displays the total time of power that the Media Receiver has been turned ON.
- Main microcomputer's memory timing is every one hour while the power is turned ON, when power is turned OFF, when PD/SD occurs.

46

#### 7. HDMI SIGNAL INFO 1



# • Displays the input signal information of HDMI terminal

	HDMI SIGNAL INFO 1				
SA Context					
	- 4E:	Video information: valid horizontal pixel numbers (low order bit)			
	- 4F:	Video information: valid horizontal pixel numbers (high order bit)			
0x60	- 50:	Video information: valid vertical line numbers (low order bit)			
	- 51:	Video information: valid vertical line numbers (high order bit)			
	- 55:	Video information: interlace/non-interlace, sink polarity			
	- 2A:	Audio information: PCM/non PCM, copyright protected or not			
	- 30:	Audio information: sampling frequency			
	- 31:	Audio information: sampling bit rate			
	- 44:	Audio information: color space			
	- 45:	Video information: aspect ratio			
	- 46:	Video information: scaling			
0x68	- 47:	Video information: video format			
	- 48:	Video information: pixel count			
	- 84:	Audio information: channel count			
	- 85:	Audio information: not used (zero at all times)			
	- 86:	Audio infromation: not used (zero at all times)			
	- 87:	Audio information: speaker allocation			
	- 88:	Audio information (down mix prohibit flag			

47

В

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PDP-R06U

8



В

1 2 3 4 5 6 7 8 9 1011 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40

1 N FORMATION VD1 - 11 6 0 1 - N T V - J H S 6

H DM I SIGNAL INFO 2

0 x 6 0 - 3 A : 0 0 0 x 6 8 - 0 6 : 0 0

- 3 B : 0 0 - 0 8 : 0 0

- 0 C : 0 0

- 0 D : 0 0

10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40

1 N FORMATION VD1 - 11 6 0 1 - N T V - J H S 6

H DM I SIGNAL INFO 2

- 0 x 6 0 - 3 A : 0 0 0 0 x 6 8 - 0 6 : 0 0

- 0 D : 0 0 0

- 0 D : 0 0

- 0 D : 0 0

- 0 D : 0 0

- 0 D : 0 0

- 0 D : 0 0

#### • Displays the input signal information of HDMI terminal

	HDMI SIGNAL INFO 2				
,	SA	Context			
	- 3A:	Video information: valid horizontal pixel numbers (low order bit)			
0x60	- 3B:	Video information: valid horizontal pixel numbers (high order bit)			
UXOU	- 3C:	Video information: valid vertical line numbers (low order bit)			
	- 3D:	Video information: valid vertical line numbers (high order bit)			
	- 06:				
	- 07:				
000	- 08:	Audio information: information for audio clock playback			
0x68	- 0C:	Addition mornation. Information for additional clock playback			
	- 0D:				
	- 0E:				

3

#### 9. TUNER SIGNAL INFO

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40

1 NFORMATION VD1-11601-NTV-AHS6

2 3 TUNER SIGNAL INFO

MVDEC -0 0 : 0 0 MVDEC -1 D : 0 0

-0 2 : 0 0

-1 5 : 0 0

-1 5 : 0 0

-1 7 : 0 0

-1 8 : 0 0

-1 8 : 0 0

-1 8 : 0 0

-1 8 : 0 0

#### • Displays input signal status of MVDEC terminal

Device	SA	Context		
	00h	Signal distinct result 1		
	01h	Signal distinct result 2		
	02h	Flag detection output		
	15h	Noise level distinction 1		
MVDEC	16h	Noise level distinction 2		
MIVDEC	17h	Non-standard evaluation out		
	18h	Subcarrier signal detection		
	19h	ACC data output		
	1Ah	ACC processed information output		
	1Dh	Input signal mode setting		

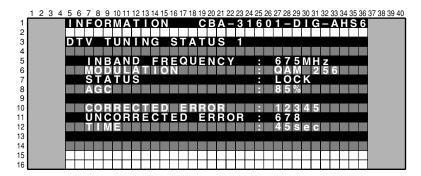
PDP-R06U

48

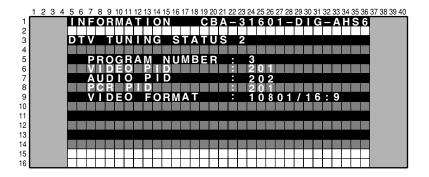
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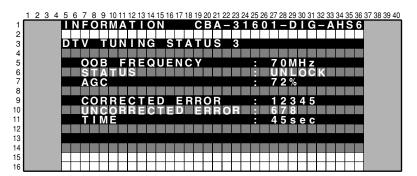
#### **10. DTV TUNING STATUS 1**



#### 11. DTV TUNING STATUS 2



#### **12. DTV TUNING STATUS 3**



Displays digital broadcast signal information and status upon receiving digital signal.

#### 13. DTV TV-GUIDE BER

Exclusively used for production line. TV-Guide error bit ratio information is displayed.

#### 14. DEBUG INFO

Exclusively used for technical analysis. Debug information for development use is displayed.

49

**2** 2 **3** 4

# 2 FUNC. CHECK (Function Check) mode

# Operation items

No.	Display	Content	RS-232C
1	FAN <=>	Forces the setting of FAN speed.	_
2	AFT <=>	Controls AFT action by turning ON/OFF.	_

# **③ COMMON ADJ. mode**

# 1. RGB1

Exclusively used for technical analysis (details omitted).

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#### **4 PANEL FACTORY mode**

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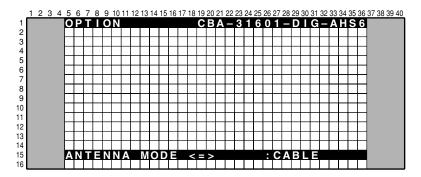
Please refer to panel's service manual.

#### **5 OPTION mode**

#### Operation items

No.	Function/Display	Content	RS-232C
1	PEAK LIMITTER ⇔	Control Peak Limitter (Select ON/OFF)	_
2	EDID WRITE MODE ⇔	DISABLE ⇔ ENABLE	_
3	ANTENNA MODE ⇔	CABLE ⇔ AIR	_

#### 3. ANTENNA MODE



Receiving Cable/Air signal with equipped/unequipped DTB tuner.

#### 1) When DTV tuner is equipped

It is effective during tuner function only (others are gray-downed). The currently viewed ANT A/ANT B function's cable/air (both analog and digital) signal are changed. The channel settings are memorized (memorized by DTV side).

#### 2 When DTV tuner is unequipped

5

It is possible for ANT A/ANT B function to receive air/cable signal.

Channel settings are not memorized. But after leaving factory mode, the settings are maintained.

If the air/ cable signal is changed, the reserved allocation map is written.

For example, if the signal is changed to air, then the air's broadcast map is configured, and cable's broadcast map is destroyed.

If the signal is changed to cable, then the cable's broadcast map is configured, and air's broadcast map is destroyed.

OSD Display	Function	Control Device
CABLE	Change the antenna setting to cable	
AIR	Change the antenna setting to air (analog)	

51

8

В

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# **6 INITIALIZE mode**

#### Operation items

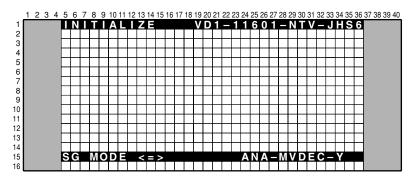
No.	Function/Display	Content	RS-232C
1	SYNC DET(+)	Exclusively used for technical analysis.	-
2	SG MODE ⇔	Paired SG_MODE with SG_PATTERN. Select SG Route.	_
3	SG PATTERN ⇔	Paired SG_MODE with SG_PATTERN. Select SG Pattern.	_
4	SIDE MASK LEVEL(+)	Configure the color of the side mask.	BSL GSL RSL
5	FINAL SETUP(+)	Initialize flash memorys on default product status	FST
6	SR+ ⇔	Select SR+ mode or UART SELECT mode.	_
7	UART SELECT ⇔	Select boud Rate on RS-232C Communication	_
8	CVT AUTO ⇔	Exclusively used for technical analysis.	_
9	HDMI INTR POSITION(+) Exclusively used for technical analysis.		_

#### 1. SYNC DET(+)

Exclusively used for technical analysis (details omitted).

#### 2. SG MODE

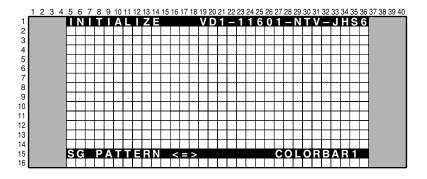
SG MODE (SG's route selection)/SG PATTERN (signal pattern selection) are used as pair. In SG MODE, select the SG route and then select the SG pattern to be sent by the selected route. In SG MODE, make sure to select the route first.



No.	Display	Content	
1	SG OFF	SG Mode is OFF.	
2	DIG MVDEC YCBCR	MAIN VDEC: YCbCr (Digital output mode)	
3	3 ANA MVDEC YCBCR MAIN VDEC: YCbCr (Analog output mode)		
4	ANA MVDEC Y MAIN VDEC: Y (Analog output mode: SG VDEC return setting)		
5	ANA AD YCBCR	AD: YCbCr	
6	ANA AD RGB	AD: RGB	

52

#### 3. SG PATTERN



No.	Function/Display	SG Pattern (Brightness IRE Level/Color)	No.	Function/Display	SG Pattern (Brightness IRE Level/Color)
1	COLOR BAR1	Colorbar (75%)	11	RASTER4	Raster (75% Green)
2	COLOR BAR2	Colorbar (100%)	12	RASTER5	Raster (75% Magenta)
3	RAMP1	Ramp (100% White)	13	RASTER6	Raster (75% Red)
4	RAMP2	Ramp (100% Yellow)	14	RASTER7	Raster (75% Blue)
5	RAMP3	Ramp (75% Green)	15	RASTER8	Raster (-% Black)
6	RAMP4	Ramp (75% Red)	16	10STEP1	10STEP (100% White)
7	RAMP5	Ramp (75% Blue)	17	10STEP2	10STEP (100% Yellow)
8	RASTER1	Raster (100% White)	18	10STEP3	10STEP (75% Green)
9	RASTER2	Raster (75% Yellow)	19	10STEP4	10STEP (75% Red)
10	RASTER3	Raster (75% Cyanide)	20	10STEP5	10STEP (75% Blue)

#### Notes when using SG MODE/SG PATTERN

- During factory mode, choose the correct route when changing.
- Basically, during VDEC SG output, make sure to connect SG output's Y or G to the AVI input terminal of VDEC.
- During SG MODE, turn off the blanking 50IRE setup function.
- During VDEC SG output, set the YC seperation setting to NTSC.
- It is possible to use ANALOG OUT MODE together during DIGITAL OUT MODE.

The Main VDEC can output digital color difference, in which colors will appear. But the route to VDEC input cannot be analysed therefore care should be taken when using. Depending on the situation, please use the proper analog/digital output.

- The SG MODE outputs color difference and RGB only. Therefore, in the case of CVBS, only the Y input is used resulting in no color. This is not a damage result nor error.
- The SG MODE's ANA AD RGB (route to input 525i to AD by RGB) as a set's route, the setting does not exist.
   For this account the latter part from MVDEC does not have set values, resulting in having funny colors in colorbar, the brightness changes after switching, etc.

This is not a damage result nor error.

• Depending on MVDEC's part version, ANA\_MVDEC\_YCBCR may not display colors.

53

В

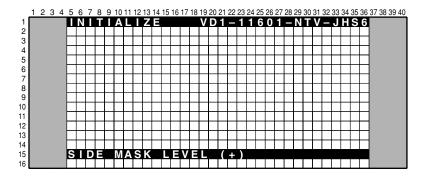
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## 4. SIDE MASK LEVEL

В

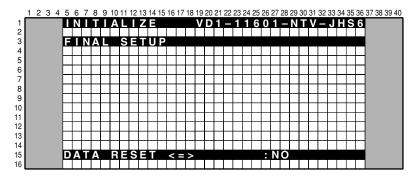
С



To configure sidemask's R, G, B level (To adjust the values, input signal is required).

No.	Display	Content	RS-232C
1	R MASK LEVEL ⇔	Adjust Side Mask R (Adjustable range: 000-255)	RSL
2	G MASK LEVEL ⇔	Adjust Side Mask G (Adjustable range: 000-255)	GSL
3	B MASK LEVEL ⇔	Adjust Side Mask B (Adjustable range: 000-255)	BSL

#### 5. FINAL SETUP



To reset each memory value to factory default values. Factory command is "FST".

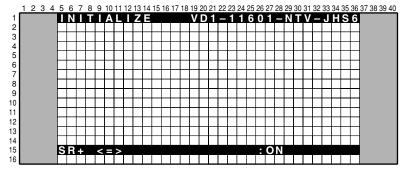
When the configuration is set to <NO> and the [SET] key is pressed, no action is taken and the menu returns to previous screen.

When the configuration is set to <YES> and the [SET] key is pressed for 5 seconds, the reset action executes.

54

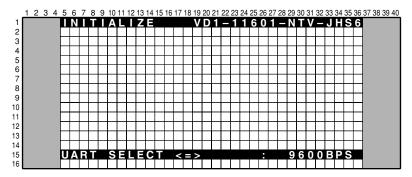
Ε

#### 6. SR+



To use SR+, select ON. To use RS-232C, select OFF.

#### 7. UART SELECT



When SR+ is OFF, UART SELECT can be selected. When SR+ is ON, UART SELECT cannot be selected.

Option No.	Display	Operation / Control	RS-232C
1 (Initial setting)		To Set to SR+ (9600bps)	SR+ is ON
2	1200	To Set to RS-232C (1200bps)	SR+ is OFF
3	2400	To Set to RS-232C (2400bps)	SR+ is OFF
4	4800	To Set to RS-232C (4800bps)	SR+ is OFF
5	9600	To Set to RS-232C (9600bps)	SR+ is OFF
6	19200	To Set to RS-232C (19200bps)	SR+ is OFF
7	38400	To Set to RS-232C (38400bps)	SR+ is OFF

#### 8. CVT AUTO

Exclusively used for technical analysis (details omitted).

#### 9. HDMI INTR POSITION (+)

Exclusively used for technical analysis (details omitted).

55

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# 6.7 LIST OF RS-232C COMMANDS

RS-232C commands can be used in Service Factory mode. Before using RS-232C commands, it is necessary to change the factory presetting. See "6.2 USING RS-232C COMMANDS."

Also the RS-232C commands for the panel is not listed. Please refer to panel's service manual.

Command	Operation	Remarks
	·	
В		
BSL	Adjust side mask B	
С		
CNG	Clearing MR NG information	
CHR	Clearing MR Hour meter	
СТМ	Clearing the modification log	
D		
DW*	Decreasing the adjustment value by*	*:1-9, 0 (0 means 10), F (making the adjustment value the minimum)
_		
F	Turning Contine Footon mode. "	
FAN	Turning Service Factory mode off.	
FAY	Turning Service Factory mode on.	
FST	Final Set Up	
G	i iliai Set Op	
GSL	Adjusting side mask G	
I	, agasting side masic a	
	Selection of tuner for digital signals (Antenna A) and	****** = Major Channel Number
INA****###	terrestrial analog signals (Antenna A)	### = Minor Channel Number
INA***	Selection of tuner for terrestrial analog signals (AntennaA)	*** = Channel Number
INB***	Selection of tuner for terrestrial analog signals (Antenna B)	*** = Channel Number Cable: 1-125ch, Air: 2-69ch
ING	Selection of iLink input functions	- Original Namber Sable: 1 12001, 7iii. 2 0001
INH	Selection of Home Gallery input functions	Elite Mode only
INPS01	Input selection: input 1	
INPS02	Input selection: input 2	
INPS03	Input selection: input 3	
INPS04	Input selection: input 4	
INPS05	Input selection: input 5	
0		
OSDS00	Turning On-Screen Display ON	Prohibit On-Screen Display.
OSDS01	Turning On-Screen Display OFF	Permit On-Screen Display.
Р		
POF	Turning the power off.	
PON	Turning the power on.	
Q		
QS1	Obtaining the version data for each device.	
QS6	Obtaining the any version.	
QMT	Obtaining the MR temperature information.	
QNG	Obtaining NG data of the MR.	
RSL	Adjust side mask R	
T	Aujust side Illask II	
TSN	Disable the TRAP switch	
TSY	Enable the TRAP switch	
U	Endote the That Switch	
UP*	Increasing the adjustment value by *	*:1-9, 0 (0 means 10), F (making the adjustment value the maximum)
<b>Z</b>	moreasing the adjustifient value by	17-0, 0 (0 means 10), 1 (maxing the adjustment value the maximum)
ZME	Initialize video EEPROM data	
LIVIL	Initialize VIUCU EEI TIOIVI VAIA	I .

56

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Order	Part	Data Content	Size	Remarks
0	-	Received Command Name on MR	3 byte	'QS1' only
1		Display Information 1	1 byte	
2		Display Information 2	1 byte	
3		Display Information 3	1 byte	
4		Display Information 4	1 byte	
5		Display Information 5	1 byte	
6		Boot Version of Module microcomputer.	3 byte	
7	MDU	Program Version of Module microcomputer.	8 byte	
8		Boot Version of ASTRA-MANTA	3 byte	
9		Program Version of ASTRA-MANTA	8 byte	
10		Sequence Version (43VIDEO)	4 byte	
11		Sequence Version (43PC)	4 byte	
12		Sequence Version (50VIDEO)	4 byte	
13		Sequence Version (50PC)	4 byte	
14		, (comma)	1 byte	
15		MR Infomation 1	1 byte	
16		MR Infomation 2	1 byte	
17		MR Infomation 3	1 byte	
18		MR Infomation 4	1 byte	
19	MR	Version of IF microcomputer	4 byte	
20	МН	Version of Main microcomputer	8 byte	
21		Boot Version of Main microcomputer	4 byte	
22		Program Version of CARRERA-MANTA	8 byte	
23		Boot Version of CARRERA-MANTA	4 byte	
24		GUI Version of CARRERA-MANTA	8 byte	
25		Enhanced Version of CARRERA-MANTA	8 byte	
26		PIC Version of CARRERA-MANTA	8 byte	

**QS6:** Returning information of the Flash Device.

Order	Data Content	Size	Remarks
0	Received Command Name on MR	3 byte	'QS6' only
1	Hardware Version of DTV	8 byte	
2	Hardware Serial of DTV	8 byte	
3	Runtime Version of DTV	8 byte	
4	CFE Version	8 byte	
5	KERNEL Version	8 byte	
6	ROOTFS Version	8 byte	
7	FLAGS Information 1 (H/W: 'Y' or 'N')	1 byte	
8	FLAGS Information 2 (1394: 'Y' or 'N')	1 byte	
9	FLAGS Information 3 (DVR: 'Y' or 'N')	1 byte	
10	FLAGS Information 4 (FONTS: 'Y' or 'N')	1 byte	
11	FLAGS Information 5 (DFAST: 'Y' or 'N')	1 byte	
12	Version of CCD-UCOM	4 byte	
13	Version of PC-CARD	8 byte	
14	User Password	4 byte	

57

Ε

PDP-R06U

6

# QMT: Returning information of MR temperature and FAN speed.

Order	Data Content	Size	Remark
0	Received Command Name on MR	3 byte	'QMT' only
1	MR Temperature	3 byte	
2	MR FAN Speed	1 byte	0: STOP 1: MIN 2: MAX

# QNG: Returning data (logs keep on Main microcomputer) on shutdown of Media Receiver.

Order	Data	Size	Context
0	Received Command Name on MR	3 byte	'QNG' only
1	Latest NG data	1 byte	
2	Data of subcategory for the latest NG	1 byte	
3	Data of MR hour meter for the latest NG	7 byte	
4	Data of temperature for the latest NG	3 byte	
5	2nd latest NG data	1 byte	
6	Data of subcategory for the 2nd latest NG	1 byte	
7	Data of MR hour meter for the 2nd latest NG	7 byte	
8	Data of temperature for the 2nd latest NG	3 byte	
:	:	:	
29	8th latest NG data	1 byte	
30	Data of subcategory for the 7th latest NG	1 byte	
31	Data of MR hour meter for the 7th latest NG	7 byte	
32	Data of temperature for the 7th latest NG	3 byte	

#### • Details of Data and subcategory

Data	Cause of Shutdown	Remarks
0	Normal	
1	Failure of communication to Module microcomputer	
2	3-wire Serial Communication of Main microcomputer.	Subcategory ⇒ 1
3	IIC Communication failure of Main microcomputer	Subcategory ⇒ 2
4	Communication failure of Main microcomputer & Unknown Error	
5	Fan stopped	
6	Abnormally high temperature at MR.	
7	Failure of Digital Tuner	Subcategory ⇒ 3
8	Abnormally in RST2 of MR (power decrease of DC-DC converter)	
9	Failure at Home Gallary	Subcategory ⇒ 4

#### • Data on Subcategories for failure in 3-wire serial communication of Main microcomputer (subcategory 1)

Data	Cause of Shutdown	Remarks
0	Non subcategory	
1	1 Communication failure of IF microcomputer	
2	2 MANTA communication failure (MULIT1)	
4	MANTA communication failure (I/P)	
5	MANTA communication failure (D-SEL)	

58

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#### • Data on Subcategories for failure in IIC communication of Main microcomputer (subcategory 2)

Data	Cause of Shutdown	Data	Cause of Shutdown
0	Non subcategory	Α	AD/PLL
1	Analog Tuner 1 (Front End 1)	В	HDMI
2	Analog Tuner 2 (Front End 2)	С	TMDS Tx
3	MPX	D	TMDS Rx
4	AV Switch	E	M2 Communication
5	RGB Switch	F	M2 Busy
6	CCD	G	64k EEPROM
7	GCR		
8	Main VDEC		
9	Sub VDEC		

## • Data on Subcategories for failure in DTB communication of Main microcomputer (subcategory 3)

Data	Cause of Shutdown	Remarks
0	Non subcategory	
1	Failure to DTB Starting	
2	Communication failure to DTB	
3	DTB Device Error	
4	TV-Guide Error	

#### • Data on Subcategories for failure at Home Gallery (subcategory 4)

Data	Cause of Shutdown	Remarks
0	Non subcategory	
1	Failure of PC Card Communication	
2	Failure of PC Card	
3	PC Card Reset NG	

59

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В

С

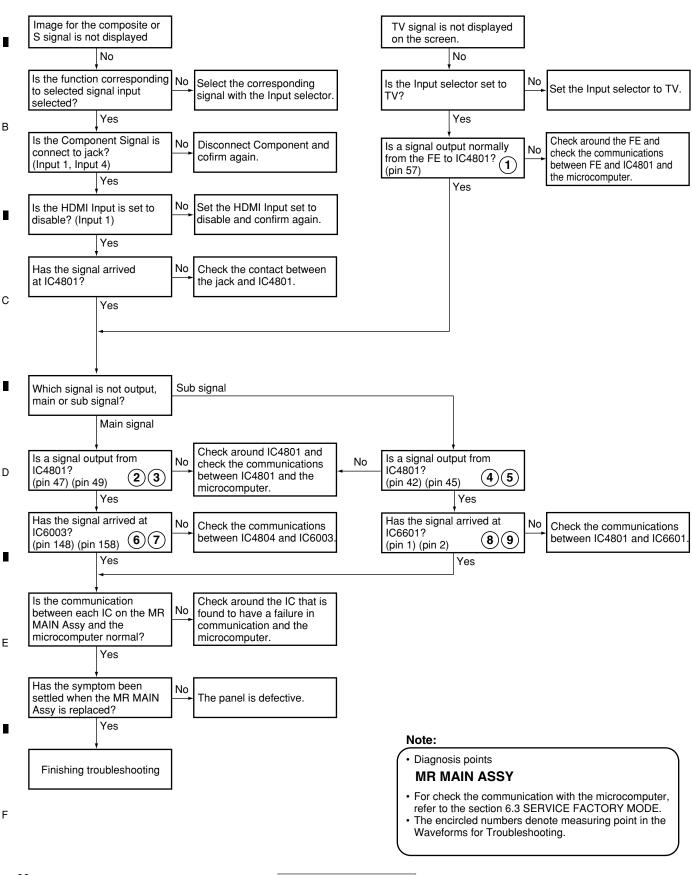
Е

# 7. GENERAL INFORMATION

#### 7.1 DIAGNOSIS

#### 7.1.1 TROUBLESHOOTING

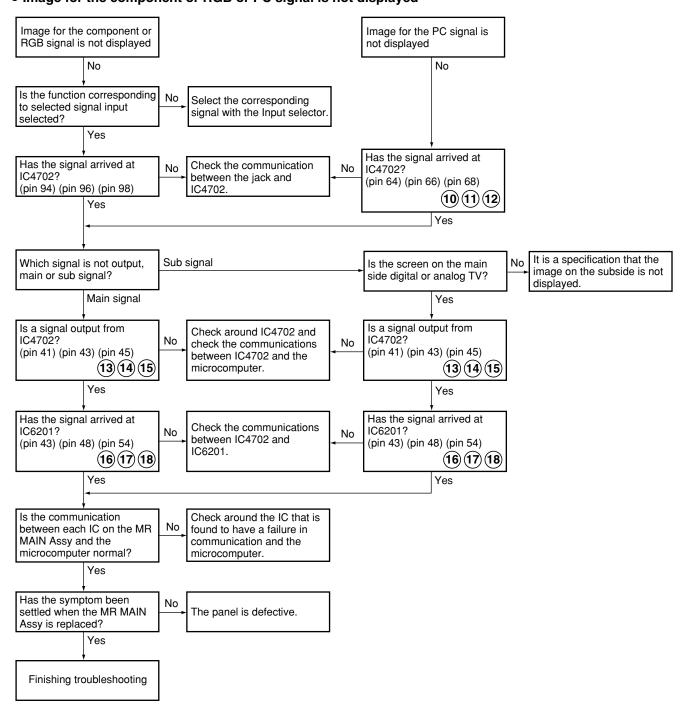
Image for the composite or S or TV signal is not displayed



60

PDP-R06U

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61

В

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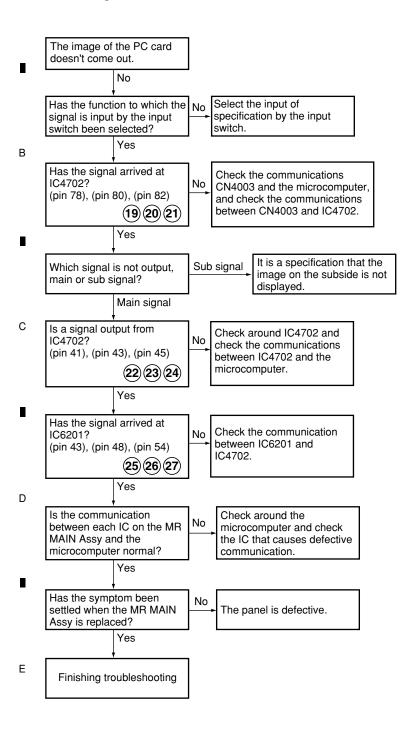
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PDP-R06U 7

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1 2 3 4

#### • The image of the PC card doesn't come out

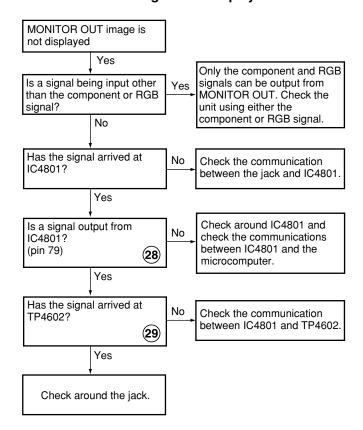


62

PDP-R06U

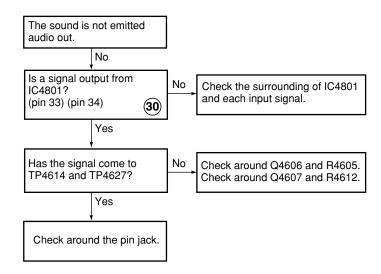
■ 2 ■ 3 ■ 4

## MONITOR OUT image is not displayed



#### • The sound is not emitted audio out

5



63

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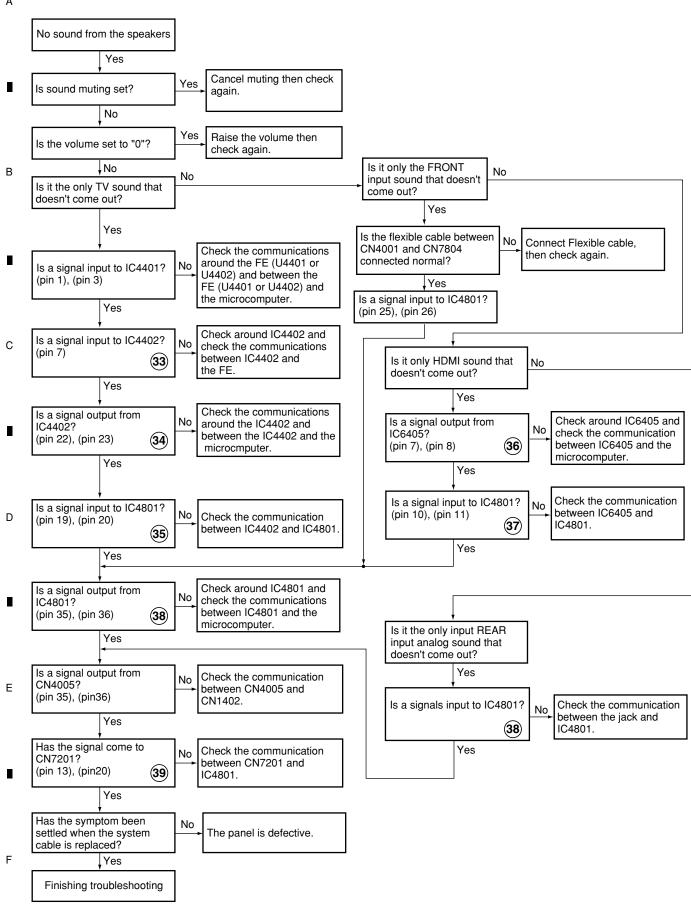
PDP-R06U

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#### No sound from the speakers

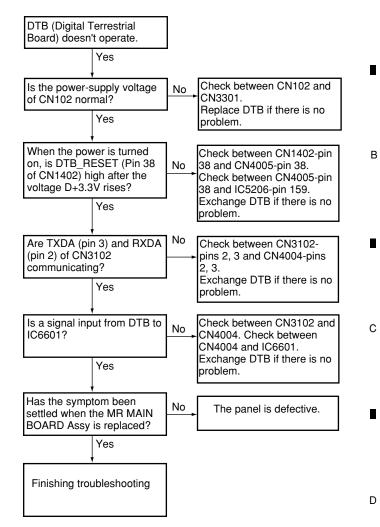


64

#### No sound from the subwoofer

#### No sound from the subwoofer Yes Cancel muting then check Is the sound muting set? again. No Raise the volume then Yes Is the volume set to "0"? check again. Is a signal output from No Check around IC4801 and IC4801? (pin 31), (pin 32) each input signal. (31) Yes Is a signal output from Νo IC4701? Check around IC4701. (pin 1), (pin 7) (32) Yes Has the signal arrived at Check around Q4704 and TP4703? R4710. Yes Check around the pinjack.

#### DTB (Digital Terrestrial Board) doesn't operate



65

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**-** 2 **-** 3 **-** 4

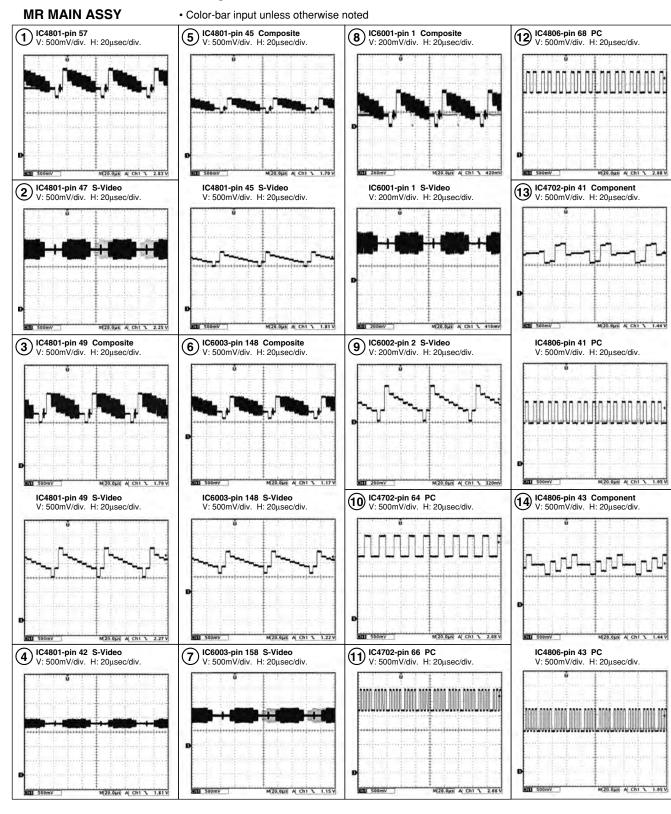
#### Waveforms for Troubleshooting

В

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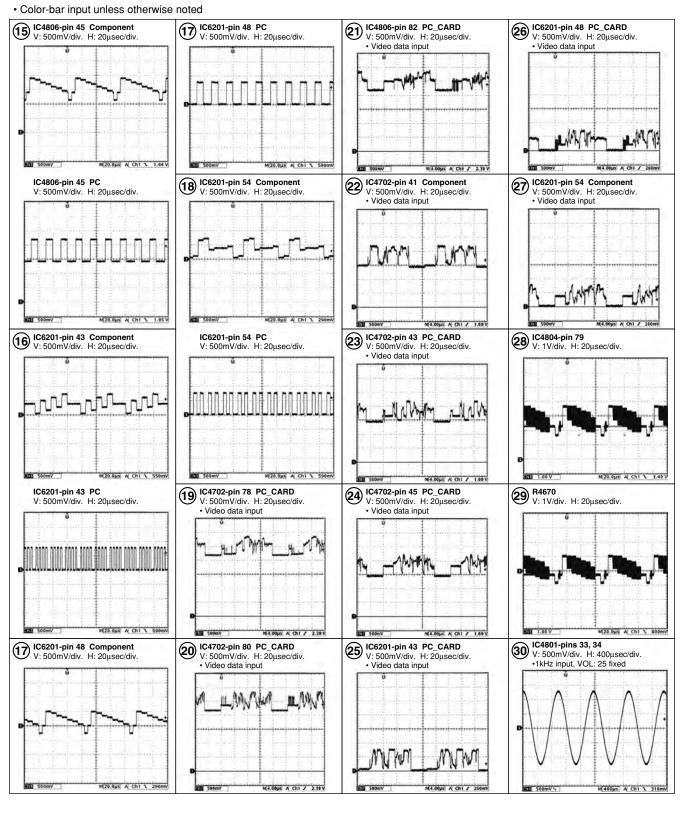
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PDP-R06U

1 2 3 4



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PDP-R06U

1 2 3 4

• 1kHz input, VOL: 25 fixed unless otherwise noted

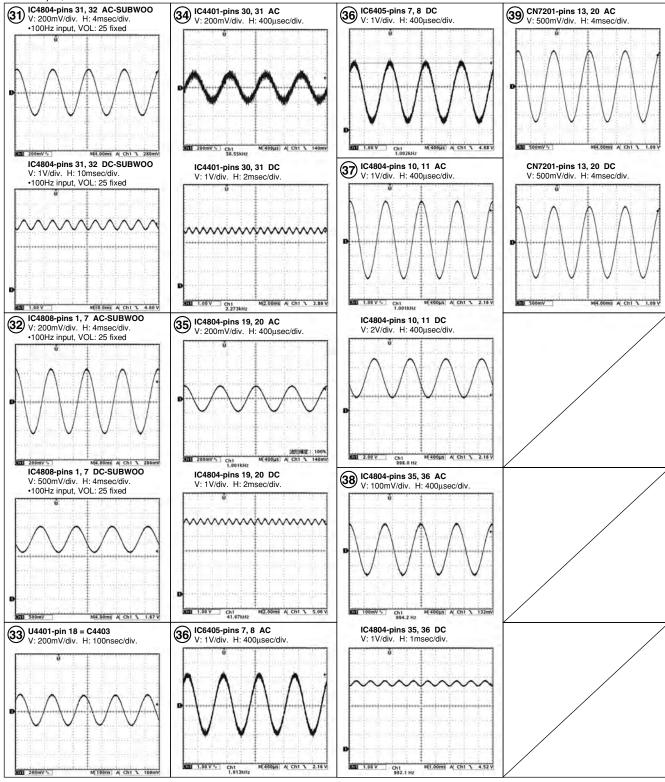
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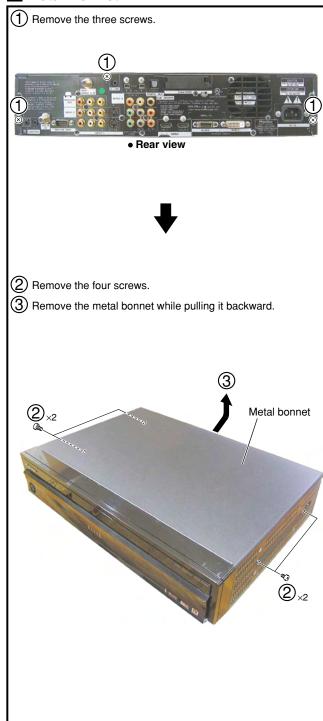
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68

PDP-R06U

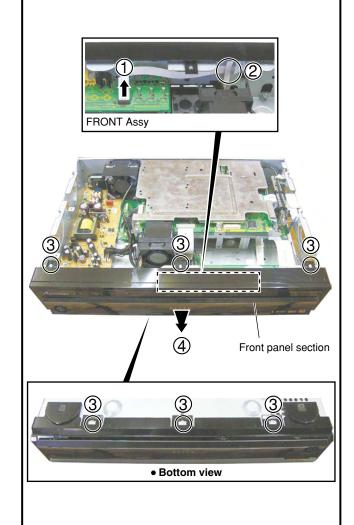
**Note:** Even if the unit shown in the photos and illustrations in this manual may differ from your product, the procedures described here are common.

#### 1 Metal Bonnet



## **2** Front Panel Section

- $\bigcirc$  Disconnect the flexible cable.
- (2) Remove the flexible cable from the flat clamp.
- (3) Unhook the six hooks.
- (4) Remove the front panel section.

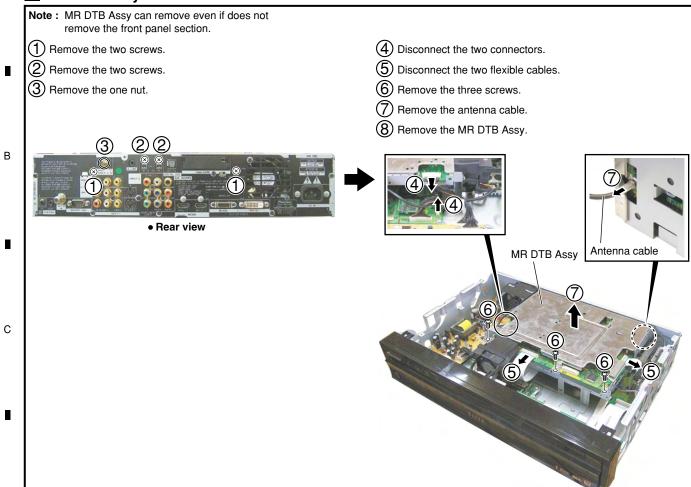


69

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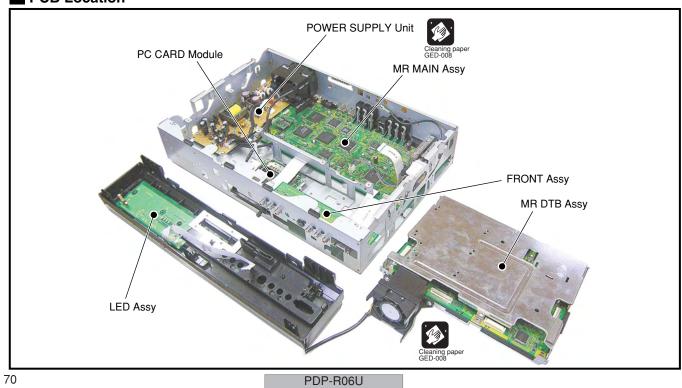


# **3** MR DTB Assy



# **PCB Location**

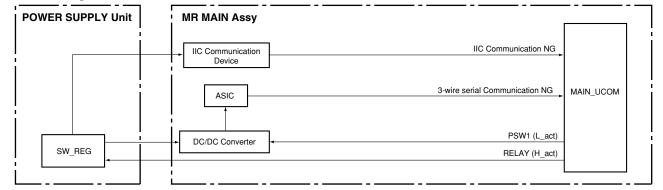
D



# 7.2 EXPLANATION 7.2.1 PROCESSING IN ABNORMALITY

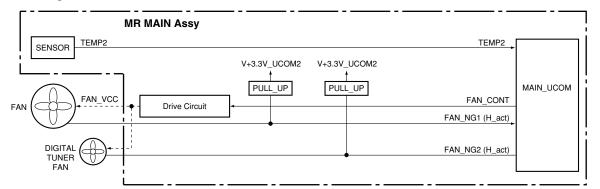
# Power supply and DC-DC converter

#### Circuit diagram



# Fan and temperature sensor

#### Circuit diagram

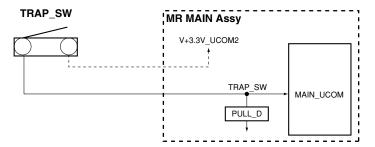


#### Specifications for port monitoring

Port Name	SD/PD Indication	Assigned Pin	Active
FAN_NG 1	FAN	155	Shutdown with H
FAN_NG 2	FAN	104	Shutdown with H
TEMP2	Abnormally high temperature in the MR	76	Shutdown when the value exceeds the predetermined value

# TRAP\_SW

#### Circuit diagram



#### Specifications for port monitoring

Port Name	SD/PD Indication	Assigned Pin	Active
TRAP_SW	Modification tried	151	OFF with L

71

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PDP-R06U

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1 2 3 4

2.5sec 2.5sec 1sec **LED-lighting Pattern** 100msec 1sec 50msec 50msec 0.5sec 0.5sec 100msec ш ш а с В  $\alpha$ В  $\alpha$ В  $\alpha$ а с <u>ш</u> В  $\alpha$ В α Flashing alternately in red and blue (at 1-sec intervals) Flashing in blue n times (initially at 0.5-sec intervals then 2.5-sec intervals) Flashing in red for n times (initially at 0.5-sec intervals then 2.5-sec intervals) Flashing in red (at 1-sec intervals) Lit in blue Status of the Unit Lit in red LED-lighting patterns System cable disconnected \* Shutdown (circuit protection) Waiting for finish of rewriting by the microcomputer Waiting for start of rewriting by the microcomputer TRAP switch operation Standby, power management PDP's power not on Power-down (circuit protection) Power on PDP-R06U 1

\* In this case, the red and blue areas on the screen of the panel flash alternately.

72

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2

3

efective points assumed from the number of times of LED flashing
s assumed from the number of time
s assumed from the number of time
s assumed from the number of time
s assumed from the numb
s assumed from the numb
s assumed from th
sassumed
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efective points
efective

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3s on t	De on the papel I FDs on the M						
	ווני אמוני	LEDs or	LEDs on the panel LEDs on the MR	Category	one defected as	Possible defective points (representative examples)	(warning message)
Red	Blue	Red	Blue	*	delective		(waiiiig iiessage)
	Blue 1	Red			Panel drive IC	2*	None
	Blue 2	Red			Module section IIC	*2	None
	Blue 3	Red			Power decrease of DIGITAL-DC-DC	*5	None
	Blue 4	Red			Panel having abnormally high temperature	*2	Power off. Internal temperature is too high. Check temperature around PDP. [SD04] *6
	Blue 5	Red			Short-circuiting of the speakers	*5	
Red			Blue 6		Module microcomputer	Disconnection of the system cable Defective module microcomputer or its peripheral circuits of the panel (Refer to the service manual of the PDP-436PU or PDP-506PU.) Defective main microcomputer (IC5206) Failure in communication (TXD_MD, RXD_MD, REQ_MD) between the panel's module microcomputer and IC5206 (main microcomputer)	None
Red			Blue 7		3-wire serial connection of the main section	3, IC	None
Red			Blue 8	SD	IIC of the main section	Defective U4401 (FE1) or its peripheral circuits Defective U4402 (FE2) or its peripheral circuits Defective C4401 (WTN) or its peripheral circuits Defective (C4702 (RGB_SW) or its peripheral circuits Defective (C4702 (RGB_SW) or its peripheral circuits Defective (C5602 (CCD) or its peripheral circuits Defective (C5602 (CCD) or its peripheral circuits Defective (C6404 (HDMI) or its peripheral circuits Defective (C5404 (HDMI) or its peripheral circuits Defective (C5405 (TX.COM_TASN) or its peripheral circuits Defective (C5202 (MACEP) or its peripheral circuits Defective (C5405 (TX.COM_TASN) or its peripheral circuits Defective (C5202 (MACEP) or its peripheral circuits Defective (C5202 (M	None
						Pallure in communication (SCL_AV, SUA_AV, SUL_MA, SUA_MA, SUL_EY, SUA_EY, SUL_HUCF, SUA_HUCF) between one of the above devices and IC5206 (main microcomputer)	
Red			Blue 9		Main microcomputer	Defective IC5206 (main microcomputer) Failure in communication (TXD_IF, RXD_IF, CLK_IF, CE_IF, BUSY_IF) between IC5206 (main microcomputer) and IC5002	None
Red			Blue 10		Fan	Failure in the fan motor, or the fan stopped because of dust attached to the fan	None
Red			Blue 11		MR or unit having abnormally high temperature		Power off. Internal temperature is too high. Check temperature around media receiver. [SD011]
Red			Blue 12		Digital tuner	Defective DTV tuner Failure in communication (TXD_DT, RXD_DT) between the digital tuner and IG5206 (main microcomputer)	None
Red			Blue 13		ASIC power supply (DC-DC)	Defective U4201 (DD_CON) or short-circuiting elsewhere *6	None
Red 2		Red			POWER	*	None
Red 3		Red			SCAN	Z*	None
Red 4		Red			SCN-5V	Z*	None
Red 5	Ţ	Red			Y-DRV	7. C.	None
Red 7		Bed			SIIS-Y	I I &	None
Red 8		Red		8	ADRS		None
Red 9		Red			X-DRV	2*	None
Red 10		Red			X-DCDC		None
Red 11		Red			X-SUS	<b>2</b> *	None
Red 12	Ţ	Red			D-DCDC		None
Red 13		Hed Dod			IC4	7. 6.	None
2		ופת			CIANGONIA		

73

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PDP-R06U

6

PDP

REM

optical

BUFF

receiver

MOD Microcomputer

BUFF

Power supply MOD

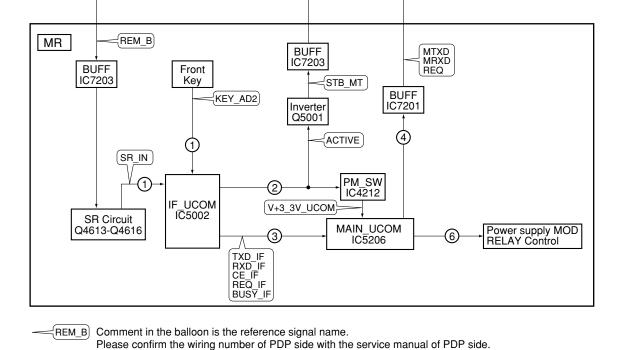
Power supply MOD RELAY Control

STB Control

Α

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BUFF

① : Remote controller signal (or, KEY signal) is input into IF microcomputer.

④: Main microcomputer sends in the activation order to MOD microcomputer.

②: IF microcomputer supplies the power supply to Main microcomputer and MOD microcomputer.

③: IF microcomputer communicates the operation information of Remote controller (or KEY) to Main microcomputer.

⑤: MOD microcomputer controls the relay of PDP power supply MOD, and activate the power supply of PDP side. ⑥: Main microcomputer controls the relay of MR power supply MOD, and activate the power supply of MR side.

# 7.3 PARTS 7.3.1 IC

• The information shown in the list is basic information and may not correspond exactly to that shown in the schematic diagrams.

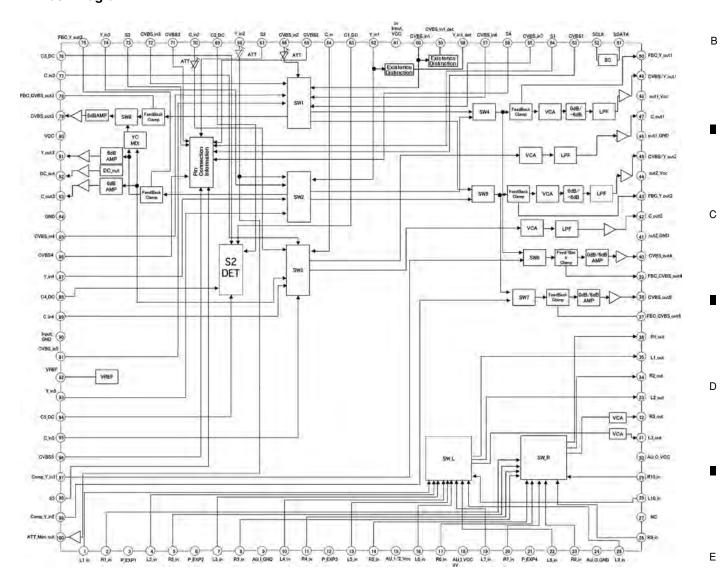
#### List of IC

R2S11002AFT, R2S11001FT, UPD64015GM-UEU, K4S161622H-TC60, AD9985KSTZ-110, SII9021CTU, K4S643232H-TC60, MBM29DL162TE70TN, SII170BCLG64, AXY1117, AXF1130, AXF1148

### ■ R2S11002AFT (MR MAIN ASSY: IC4801)

• AV SW

#### Block Diagram

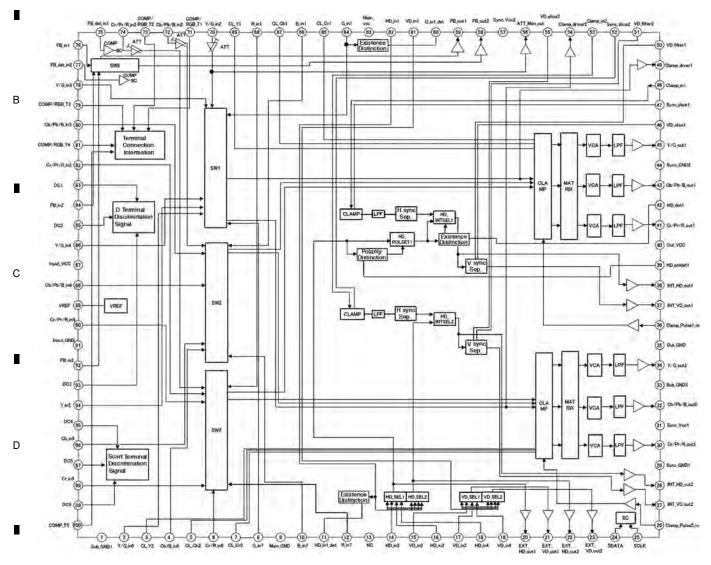


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# ■ R2S11001FT (MR MAIN ASSY: IC4702)

· Component SW IC

#### Block Diagram



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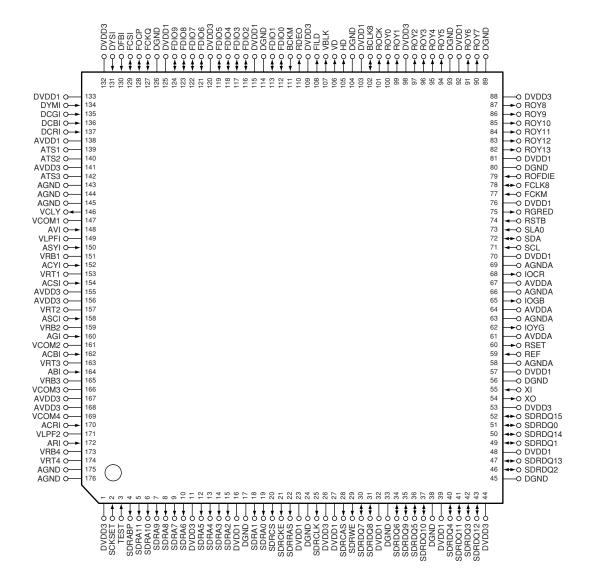
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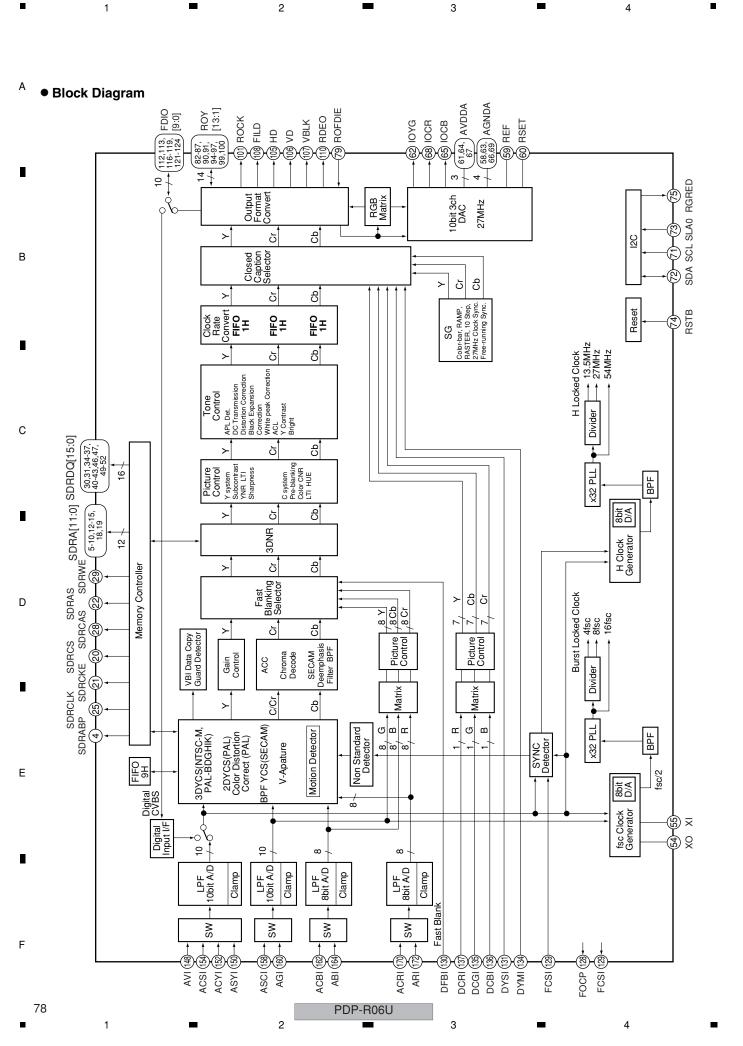
Video Decoder (for main screen)

#### Pin Arrangement (Top view)



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#### Pin Function

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Pir	Pin Function								
No.	Pin Name	I/O	Pin Function						
1	DVDD3	_	Digital power supply (3.3V)						
2	SCKSET	1	Test mode selection (L: Normal, H: Test mode)						
3	TEST	- 1	Test setting (L: Normal, H: Test mode)						
4	SDRABP	0	All bank precharge output for external memory (Active High)						
5	SDRA11	0	Address output for external memory						
6	SDRA10	0	Address output for external memory						
7	SDRA9	0	Address output for external memory						
8	SDRA8	0	Address output for external memory						
9	SDRA7	0	Address output for external memory						
10	SDRA6	0	Address output for external memory						
11	DVDD3	_	Digital power supply (3.3V)						
12	SDRA5	0	Address output for external memory						
13	SDRA4	0	Address output for external memory						
14	SDRA3	0	Address output for external memory						
15	SDRA2	0	Address output for external memory						
16	DVDD1	_	Digital power supply (1.5V)						
17	DGND	<u> </u>	Digital ground						
18	SDRA1	0	Address output for external memory						
19	SDRA0	0	Address output for external memory						
20	SDRCS	0	Chip select output for external memory (Active Low)						
21	SDRCKE	0	Clock enable output for external memory (Active Low)						
22	SDRRAS	0	Row address strobe output for external memory (Active Low)						
23	DVDD1	_	Digital power supply (1.5V)						
24	DGND	-	Digital ground						
25	SDRCLK	0	Clock output for external memory						
26	DVDD3	-	Digital power supply (3.3V)						
27	DVDD1		Digital power supply (0.5V)						
28	SDRCAS	0	Column address strobe output for external memory (Active Low)						
29	SDRWE	0	Write enable output for external memory (Active Low)						
30	SDRDQ7	1/0	Data input/output for external memory						
31	SDRDQ7	1/0	Data input/output for external memory						
32	DVDD1	-	Digital power supply (1.5V)						
33	DGND	_	Digital ground						
34	SDRDQ6	I/O	Data input/output for external memory						
35	SDRDQ9	I/O	Data input/output for external memory						
36	SDRDQ5	I/O	Data input/output for external memory						
37	SDRDQ10	I/O	Data input/output for external memory						
38	DGND	-	Digital ground						
39	DVDD1	<del>                                     </del>	Digital power supply (1.5V)						
40	SDRDQ4	I/O	Data input/output for external memory						
41	SDRDQ11	I/O	Data input/output for external memory						
42	SDRDQ3	I/O	Data input/output for external memory						
	SDRDQ12		Data input/output for external memory						
43 44	DVDD3	I/O _	Digital power supply (3.3V)						
45	DGND	+	Digital ground						
46	SDRDQ2	I/O	Data input/output for external memory						
	SDRDQ2 SDRDQ13	1							
47	DVDD1	I/O	Data input/output for external memory  Digital power supply (1.5V)						
48 49	SDRDQ1	I/O							
50 50	SDRDQ1 SDRDQ14	1/0	Data input/output for external memory						
50	אטחטטון 14	1/0	Data input/output for external memory						

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No.	Pin Name	I/O	Pin Function
51	SDRDQ0	I/O	Data input/output for external memory
52	SDRDQ15	I/O	Data input/output for external memory
53	DVDD3	_	Digital power supply (3.3V)
54	XO	0	Reference clock output Connect a 24.576MHz crystal.
55	XI	I	Reference clock input Connect a 24.576MHz crystal.
56	DGND	_	Digital ground
57	DVDD1	_	Digital power supply (1.5V)
58	AGNDA	_	Analog ground for DAC
59	REF	I	External reference input
60	RSET	0	Connect a 620 ohm resistor for external adjustment to AGND
61	AVDDA	_	Analog power supply for DAC (3.3V)
62	IOYG	0	Color-difference component Y / RGB component G output signal
63	AGNDA	_	Analog ground for DAC
64	AVDDA	_	Analog power supply for DAC (3.3V)
65	IOGB	0	Color-difference component Cb / RGB component B output signal
66	AGNDA	<del>                                     </del>	Analog ground for DAC
67	AVDDA	_	Analog power supply for DAC (3.3V)
68	IOCR	0	Color-difference component Cr / RGB component R output signal
69	AGNDA	_	Analog ground for DAC
70	DVDD1	<del>  -</del>	Digital power supply (1.5V)
71	SCL	1	I <sup>2</sup> C bus clock input Connect to SCL line of the system.
72	SDA	1/0	I <sup>2</sup> C bus data input/output Connect to SDA line of the system.
73	SLA0	1/0	I <sup>2</sup> C bus slave address select input (L: B8h/B9h, H: BAh/BBh)
74	RSTB	'	System reset input (Active Low)
75	RGRED	0	I <sup>2</sup> C register read flag output (Active Low)
76	DVDD1	+ -	Digital power supply (1.5V)
77	FCKM	-   	FCLK8 test mode selection (L: Normal, H: Test mode)
78	FCLK8	1/0	Line-lock clock monitor input/output
79	ROFDIE	1/0	Output enable of the video input/output terminal L: Output terminal Hi-Z, H: Output enable
80	DGND	<u> </u>	Digital ground
81	DVDD1	<del>  -</del>	Digital power supply (1.5V)
82	ROY13	0	Digital ITU-R BT. 656/component output Digital RGB component (8 bit) output
83	ROY12	0	Digital ITU-R BT. 656/component output  Digital ITU-R BT. 656/component output  Digital RGB component (8 bit) output
84	ROY11	0	Digital ITU-R BT. 656/component output  Digital ITU-R BT. 656/component output  Digital RGB component (8 bit) output
85	ROY10	0	Digital ITU-R BT. 656/component output  Digital RGB component (8 bit) output  Digital ITU-R BT. 656/component output
	ROY9		Digital ITU-R BT. 656/component output  Digital RGB component (8 bit) output
86 87	ROY8	0	Digital ITU-R BT. 656/component output  Digital ITU-R BT. 656/component output  Digital RGB component (8 bit) output
88	DVDD3	-	Digital power supply (3.3V)
89	DGND		Digital ground
90	ROY7	0	Digital ITU-R BT. 656/component output Digital RGB component (8 bit) output
	ROY6	0	Digital ITU-R BT. 656/component output  Digital RGB component (8 bit) output  Digital ITU-R BT. 656/component output
91	DVDD1		Digital power supply (1.5V)
92		_	
93	DGND	-	Digital ground
94	ROY5	0	Digital ITU-R BT. 656/component output Digital RGB component (8 bit) output
95	ROY4	0	Digital ITU-R BT. 656/component output Digital RGB component (8 bit) output
96	ROY3	0	Digital ITU-R BT. 656/component output Digital RGB component (8 bit) output
97	ROY2	0	Digital ITU-R BT. 656/component output Digital RGB component (8 bit) output
98	DVDD3	-	Digital power supply (3.3V)
99	ROY1	0	Digital ITU-R BT. 656/component output
100	ROY0	0	Digital ITU-R BT. 656/component output Digital RGB component (8 bit) output

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NI-	Din Marra	1/0	Din Eunstian
No.	Pin Name ROCK	1/0	Pin Function
		0	Clock for digital ITU-R BT. 656/component output
102	BCLK8	I/O	Line-lock clock monitor input/output
103	DVDD1	-	Digital power supply (1.5V)
104	DGND	-	Digital ground
105	HD	0	Horizontal sync. signal output
106	VD	0	Vertical sync. signal output
107	VBLK	0	V blanking output
108	FILD	0	Field output
109	DVDD3	<u> </u>	Digital power supply (3.3V)
	RDEO	0	Effective pixel area output
111	BCKM	I	Test mode selection of BCLK8 pin (L: Normal, H: Test mode)
112	FDIO0	I/O	Digital 8/10 bit Cb, Cr output / Input at UPD64031A digital connection Open at no use.
113	FDIO1	I/O	Digital 8/10 bit Cb, Cr output / Input at UPD64031A digital connection Open at no use.
114	DGND	_	Digital ground
115	DVDD1	_	Digital power supply (1.5V)
116	FDIO2	I/O	Digital 8/10 bit Cb, Cr output / Input at UPD64031A digital connection Open at no use.
117	FDIO3	I/O	Digital 8/10 bit Cb, Cr output / Input at UPD64031A digital connection Open at no use.
	FDIO4	I/O	Digital 8/10 bit Cb, Cr output / Input at UPD64031A digital connection Open at no use.
	FDIO5	I/O	Digital 8/10 bit Cb, Cr output / Input at UPD64031A digital connection Open at no use.
120	DVDD3	-	Digital power supply (3.3V)
	FDIO6	I/O	Digital 8/10 bit Cb, Cr output / Input at UPD64031A digital connection Open at no use.
	FDIO7	I/O	Digital 8/10 bit Cb, Cr output / Input at UPD64031A digital connection Open at no use.
	FDIO8	I/O	Digital 8/10 bit Cb, Cr output / Input at UPD64031A digital connection Open at no use.
	FDIO9	1/0	Digital 8/10 bit Cb, Cr output / Input at UPD64031A digital connection Open at no use.
125	DVDD1	-	Digital power supply (1.5V)
126	DGND	-	Digital ground
	FCKQ	I/O	Sampling clock output for digital connection
	FOCP	1/0	Clamp pulse output for digital connection / Timing output for digital RGB input (VD)
	FCSI	1/0	Sync sep. signal input / Timing output for RGB input (HD)
	DFBI	1/0	Fast blanking signal input for analog RGB input
131	DYSI	+ ;	YS signal input for digital RGB input
	DVDD3	+ '	Digital power supply (3.3V)
	DVDD3	<del>  -</del>	Digital power supply (3.5V)  Digital power supply (1.5V)
133	DYMI	-	
		+	YM signal input for digital RGB input
		+	Digital RGB/G signal input Digital RGB/B signal input
	DCBI	+ +	
137	DCRI		Digital RGB/R signal input
	AVDD1	_	Analog power supply (1.5V)
	ATS1	-	Analog test input Normally, connect to GND.
	ATS2	<del>  -</del>	Analog test input Normally, connect to GND.
141	AVDD3	-	Analog power supply (3.3V)
	ATS3	-	Analog test input Normally, connect to GND.
143	AGND	_	Analog ground
144	AGND	_	Analog ground
	AGND	-	Analog ground
146	VCLY	0	ADC1 clamp voltage
147	VCOM1	<del>  -</del>	ADC1 common-mode reference voltage
148	AVI	I	ADC1 composite/Y signal input
149	VLPFI	-	Analog test output Connect to GND via 0.1μF capacitor.
150	ASYI		ADC1 composite/Y signal input

81

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PDP-R06U 7

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No.	Pin Name	I/O	Pin Function			
151	VRB1	_	ADC1 bottom reference voltage			
152	ACYI	ı	ADC1 composite/Y signal input			
153	VRT1	-	ADC1 top reference voltage			
154	ACSI	-	ADC1 composite/Y signal input			
155	AVDD3	-	Analog power supply for ADC (3.3V)			
156	AVDD3	_	Analog power supply for ADC (3.3V)			
157	VRT2	_	ADC2 top reference voltage			
158	ASCI	- 1	ADC2 separate C signal input			
159	VRB2	ı	ADC2 bottom reference voltage			
160	AGI	_	ADC2 RGB component G signal input			
161	VCOM2	ı	ADC2 common-mode reference voltage			
162	ACBI	ı	ADC3 color-difference component Cb signal input			
163	VRT3	ı	ADC3 top reference voltage			
164	ABI	_	ADC3 RGB component B signal input			
165	VRB3	ı	ADC3 bottom reference voltage			
166	VCOM3	_	ADC3 common-mode reference voltage			
167	AVDD3	ı	Analog power supply for ADC (3.3V)			
168	AVDD3	ı	Analog power supply for ADC (3.3V)			
169	VCOM4	_	ADC4 common-mode reference voltage			
170	ACRI		ADC4 color-difference component Cr signal input			
171	VLPF2	1	Analog test output			
172	ARI	ı	ADC3 RGB component R signal input			
173	VRB4	-	ADC4 bottom reference voltage			
174	VRT4	-	ADC4 top reference voltage			
175	AGND	_	Analog ground			
176	AGND	_	Analog ground			

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PDP-R06U

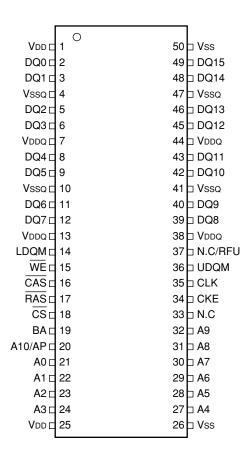
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# ■ K4S161622H-TC60 (MR MAIN ASSY : IC6002)

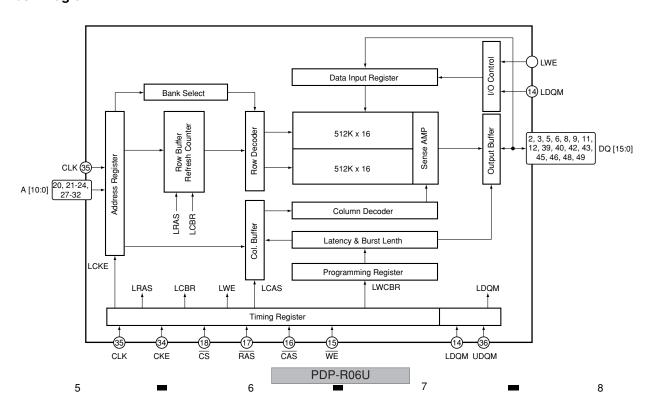
• 16M SDRAM (for Main VDEC)

#### • Pin Arrangement (Top view)

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#### Block Diagram



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# • Pin Function

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No.	Pin Name	I/O	Pin Function	No.	Pin Name	I/O	Pin Function
1	VDD	_	Power supply	26	Vss	1	Ground
2	DQ0	I/O	Data input / output	27	A4	I	Address input
3	DQ1	I/O	Data input / output	28	A5	1	Address input
4	Vssq	-	Ground for data output	29	A6	1	Address input
5	DQ2	I/O	Data input / output	30	A7	1	Address input
6	DQ3	I/O	Data input / output	31	A8	I	Address input
7	VDDQ	_	Power supply for data output	32	A9	1	Address input
8	DQ4	I/O	Data input / output	33	N.C	_	No connection
9	DQ5	I/O	Data input / output	34	CKE	I	Clock enable input
10	Vssq	_	Ground for data output	35	CLK	ı	System clock input
11	DQ6	I/O	Data input / output	36	UDQM	ı	Data input / output mask input
12	DQ7	I/O	Data input / output	37	N.C/RFU	_	No connection / Reserved for future use
13	VDDQ	-	Power supply for data output	38	VDDQ	-	Power supply for data output
14	LDQM	ı	Data input / output mask input	39	DQ8	I/O	Data input / output
15	WE	ı	Write enable input	40	DQ9	I/O	Data input / output
16	CAS	- 1	Column address strobe input	41	VssQ	_	Ground for data output
17	RAS	ı	Row address strobe input	42	DQ10	I/O	Data input / output
18	cs	ı	Chip select input	43	DQ11	I/O	Data input / output
19	ВА	ı	Bank select address input	44	VDDQ	_	Power supply for data output
20	A10/AP	ı	Address input	45	DQ12	I/O	Data input / output
21	A0	ı	Address input	46	DQ13	I/O	Data input / output
22	A1	ı	Address input	47	Vssq	-	Ground for data output
23	A2	I	Address input	48	DQ14	I/O	Data input / output
24	A3	I	Address input	49	DQ15	I/O	Data input / output
25	VDD	_	Power supply	50	Vss	ı	Ground

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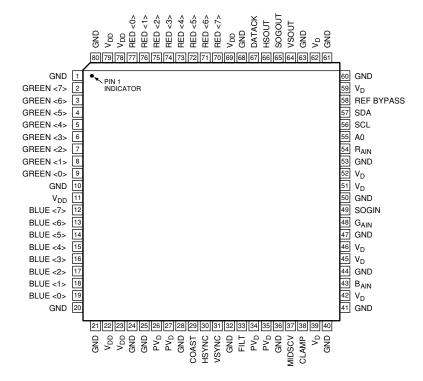
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# ■ AD9985KSTZ-110 (MR MAIN ASSY : IC6201)

• ADC

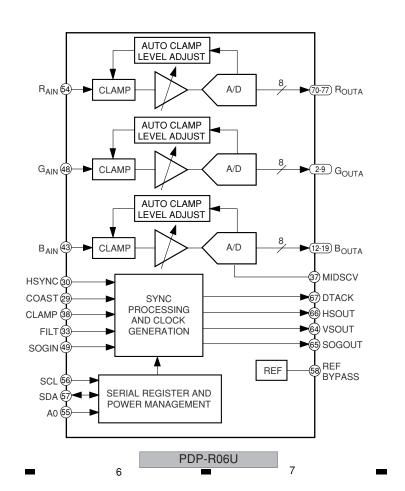
#### Pin Arrangement (Top view)

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#### Block Diagram

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# Pin Function

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Pin Type	No.	PIN Name	Pin Function
	54	Rain	Analog input for converter R
	48	GAIN	Analog input for converter G
	43	BAIN	Analog input for converter B
la a cota	30	HSYNC	Horizontal sync input
Inputs	31	VSYNC	Vertical sync input
	49	SOGIN	Input for sync-on green
	38	CLAMP	Clamp input (External CLAMP signal)
	29	COAST	PLL COAST signal input
	70-77	Red [7:0]	Outputs of converter red, bit 7 is the MSB
	2-9	Green [7:0]	Outputs of converter green, bit 7 is the BSB
	12-19	Blue [7:0]	Outputs of converter blue, bit 7 is the BSB
Outputs	67	DATACK	Data output clock
	66	HSOUT	HSYNC output (Phase-aligned with DATACK)
	64	VSOUT	VSYNC output (Phase-aligned with DATACK)
	65	SOGOUT	Sync-on-green slicer output
	58	REF BYPASS	Internal reference bypass
Reference	37	MIDSCV	Internal midscale voltage bypass
	33	FILT	Connection for external filter components for internal PLL
	39, 42, 45, 46, 51, 52, 59, 62	VD	Analog power supply
	11, 22, 23, 69, 78, 79	VDD	Output power supply
Power Supply	26, 27, 34, 35	PVD	PLL power supply
	1, 10, 20, 21, 24, 25, 28, 32, 36, 40, 41, 44, 47, 50, 53, 60, 61, 63 68, 80	GND	Ground
	57	SDA	Serial port data I/O
Control	56	SCL	Serial port data clock (100 kHz maximum)
	55	A0	Serial port address input 1

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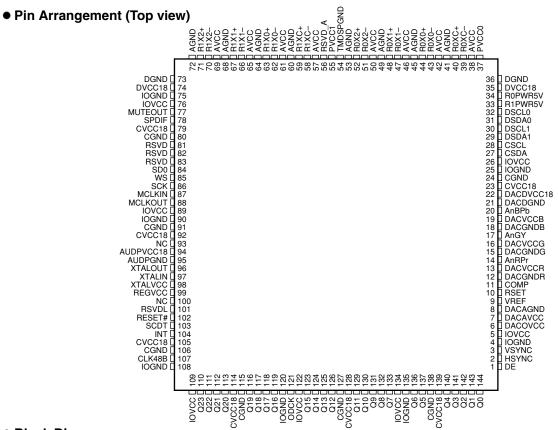
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## ■ SII9021CTU (MR MAIN ASSY: IC6404)

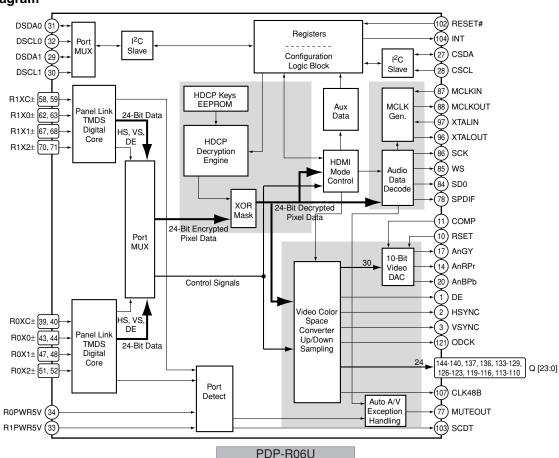
• HDMI Rx

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#### Block Diagram

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# • Pin Function

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Ī	No. Pin Name I/O Pin Function					
ŀ	No.			Data enable		
	1	DE	0			
	2	HSYNC	0	Horizontal sync output control signal		
ŀ	3	VSYNC	0	Vertical sync output control signal		
	4	IOGND	_	Input / output pin ground		
	5	IOVCC	_	Input / output pin VCC		
	6	DACOVCC	_	DAC output VCC		
	7	DACAVCC	_	DAC analog VCC		
	8	DACAGND	_	DAC analog ground		
	9	VREF		_		
	10	RSET	_	Full scale adjust resistor		
	11	COMP	_	Compensation		
	12	DACGNDR	_	DAC red ground		
	13	DACVCCR	_	DAC red VDD		
	14	AnRPr	0	Analog video red, Pr output		
	15	DACGNDG	_	DAC green ground		
	16	DACVCCG	_	DAC green VDD		
	17	AnGY	0	Analog video green, Y output		
ı	18	DACGNDB	_	DAC blue ground		
	19	DACVCCB	_	DAC blue VDD		
ı	20	AnBPb	0	Analog video blue, Pb output		
ı	21	DACDGND	_	DAC digital ground		
ı	22	DACDVCC18	_	DAC digital VCC		
ı	23	CVCC18	_	Digital logic VCC		
ı	24	CGND	_	Digital logic ground		
ŀ	25	IOGND	_	Input / output pin ground		
	26	IOVCC	_	Input / output pin VCC		
	27	CSDA	I/O	Configuration I <sup>2</sup> C data		
	28	CSCL	1	Configuration I <sup>2</sup> C clock		
ŀ	29	DSDA1	I/O	DDC I <sup>2</sup> C data for port 1		
	30	DSCL1	I	DDC I <sup>2</sup> C clock for port 1		
ŀ	31	DSDA0	I/O	DDC I <sup>2</sup> C data for port 0		
		DSCL0				
	32		I	DDC I <sup>2</sup> C clock for port 0		
	33	R1PWR5V	1	Port 1 transmitter detect		
	34	R0PWR5V	l	Port 0 transmitter detect		
	35	DVCC18	_	ACR PLL digital VCC		
	36	DGND	_	ACR PLL ground		
	37	PVCC0	_	TMDS port 0 PLL VCC		
	38	AVCC		TMDS analog VCC		
	39	R0XC-	I	TMDS input clock		
	40	R0XC+	I	TMDS input clock		
	41	AGND	_	TMDS analog ground		
	42	AVCC	_	TMDS analog VCC		
	43	R0X0-	I	TMDS input data		
	44	R0X0+	I	TMDS input data		
	45	AGND	_	TMDS analog ground		
	46	AVCC	_	TMDS analog VCC		
	47	R0X1-	ı	TMDS input data		
	48	R0X1+	ı	TMDS input data		
	49	AGND	_	TMDS analog ground		
	50	AVCC	-	TMDS analog VCC		

88

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PDP-R06U

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No.	Pin Name	I/O	Pin Function
51	R0X2-	I	TMDS input data
52	R0X2+	ı	TMDS input data
53	AGND	_	TMDS analog ground
54	TMDSPGND	_	TMDS PLL ground
55	PVCC1	_	TMDS port 1 PLL VCC
56	RSVD_A	_	Reserved pin
57	AVCC	_	TMDS analog VCC
58	R1XC-	ı	TMDS input clock
59	R1XC+	ı	TMDS input clock
60	AGND	_	TMDS analog ground
61	AVCC	_	TMDS analog VCC
62	R1X0-	ı	TMDS input data
63	R1X0+		TMDS input data
64	AGND	_	TMDS analog ground
65	AVCC	_	TMDS analog VCC
66	R1X1-		TMDS input data
67	R1X1+		TMDS input data
68	AGND		TMDS analog ground
69	AVCC	_	TMDS analog VCC
70	R1X2-		TMDS input data
71	R1X2+	1	TMDS input data
72	AGND		TMDS analog ground
73	DGND	_	ACR PLL ground
74	DVCC18	_	ACR PLL digital VCC
75	IOGND	_	Input / output pin ground
76	IOVCC	_	Input / output pin VCC
77	MUTEOUT	0	Mute audio output
78	SPDIF	0	S/PDIF audio output
79	CVCC18	_	Digital logic VCC
80	CGND		Digital logic ground
81	RSVD	0	
82	RSVD	0	_
83	RSVD	0	_
84	SD0	0	I <sup>2</sup> S serial data output
	WS	0	
85	SCK	_	I <sup>2</sup> S word select output I <sup>2</sup> S serial clock output
86 87	MCLKIN	0	Audio master clock input reference
	MCLKOUT	1	·
88		0	Audio master clock output
89	IOVCC		Input / output pin VCC
90	IOGND		Input / output pin ground
91	CGND		Digital logic ground
92	CVCC18	_	Digital logic VCC
93	NC AUDDVCC18		No connection
94	AUDPVCC18	-	ACR PLL VCC
95	AUDPGND	-	ACR PLL ground
96	XTALIN	0	Crystal clock output
97	XTALVOO	I	Crystal clock input
98	XTALVCC		ACR PLL crystal input VCC
99	REGVCC		ACR PLL regulator VCC
100	NC		No connection

89

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No.	Pin Name	I/O	Pin Function
101	RSVDL	_	Reserved, must be tied LOW
102	RESET#	_	Reset pin, active LOW
103	SCDT	0	Indicates active video at HDMI input port
104	INT	0	Interrupt output
105	CVCC18	ı	Digital logic VCC
106	CGND	ı	Digital logic ground
107	CLK48B	I/O	Data bus latch enable
108	IOGND	_	Input / output pin ground
109	IOVCC	_	Input / output pin VCC
110	Q23	0	24-bit output pixel data bus
111	Q22	0	24-bit output pixel data bus
112	Q21	0	24-bit output pixel data bus
113	Q20	0	24-bit output pixel data bus
114	CVCC18	-	Digital logic VCC
115	CGND	_	Digital logic ground
116	Q19	0	24-bit output pixel data bus
117	Q18	0	24-bit output pixel data bus
118	Q17	0	24-bit output pixel data bus
119	Q16	0	24-bit output pixel data bus
120	IOGND	-	Input / output pin ground
121	ODCK	0	Output data clock
122	IOVCC	-	Input / output pin VCC
123	Q15	0	24-bit output pixel data bus
124	Q14	0	24-bit output pixel data bus
125	Q13	0	24-bit output pixel data bus
126	Q12	0	24-bit output pixel data bus
127	CGND	_	Digital logic ground
128	CVCC18	_	Digital logic VCC
129	Q11	0	24-bit output pixel data bus
130	Q10	0	24-bit output pixel data bus
131	Q9	0	24-bit output pixel data bus
132	Q8	0	24-bit output pixel data bus
133	Q7	0	24-bit output pixel data bus
134	IOVCC	_	Input / output pin VCC
135	IOGND	_	Input / output pin ground
136	Q6	0	24-bit output pixel data bus
137	Q5	0	24-bit output pixel data bus
138	CGND	_	Digital logic ground
139	CVCC18	-	Digital logic VCC
140	Q4	0	24-bit output pixel data bus
141	Q3	0	24-bit output pixel data bus
142	Q2	0	24-bit output pixel data bus
143	Q1	0	24-bit output pixel data bus
144	Q0	0	24-bit output pixel data bus

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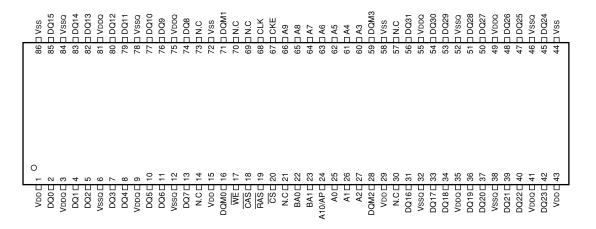
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# ■ K4S643232H-TC60 (MR MAIN ASSY : IC6801, IC6802)

• 64M SDRAM (for Silvia)

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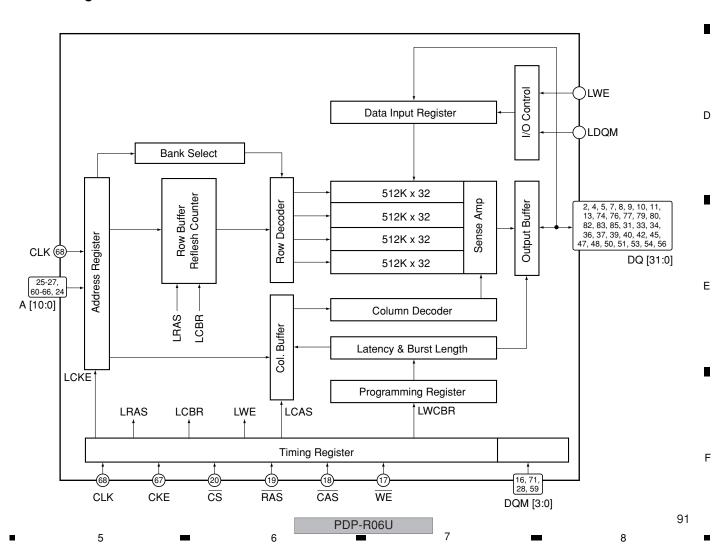
#### Pin Arrangement (Top view)



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#### Block Diagram



# • Pin Function

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	No.	Pin Name	I/O	Pin Function	No.	Pin Name	I/O	Pin Function
Г	1	VDD	-	Power supply	44	Vss	-	Ground
	2	DQ0	I/O	Data input / output	45	DQ24	I/O	Data input / output
	3	VDDQ	-	Power supply for data output	46	Vssq	-	Ground for data output
	4	DQ1	I/O	Data input / output	47	DQ25	I/O	Data input / output
	5	DQ2	I/O	Data input / output	48	DQ26	I/O	Data input / output
	6	Vssq	-	Ground for data output	49	VDDQ	-	Power supply for data output
	7	DQ3	I/O	Data input / output	50	DQ27	I/O	Data input / output
	8	DQ4	I/O	Data input / output	51	DQ28	I/O	Data input / output
	9	VDDQ	-	Power supply for data output	52	VssQ	-	Ground for data output
	10	DQ5	I/O	Data input / output	53	DQ29	I/O	Data input / output
	11	DQ6	I/O	Data input / output	54	DQ30	I/O	Data input / output
	12	Vssq	_	Ground for data output	55	VDDQ	-	Power supply for data output
	13	DQ7	I/O	Data input / output	56	DQ31	I/O	Data input / output
	14	N.C	_	No connection	57	N.C	-	No connection
	15	VDD	_	Power supply	58	Vss	-	Ground
	16	DQM0	I	Data input / output mask input	59	DQM3	ı	Data input / output mask input
	17	WE	I	Write enable input	60	A3	ı	Address input
	18	CAS	I	Column address strobe input	61	A4	ı	Address input
	19	RAS	ı	Row address strobe input	62	A5	ı	Address input
	20	cs	ı	Chip select input	63	A6	ı	Address input
	21	N.C	_	No connection	64	A7	ı	Address input
	22	BA0	ı	Bank select address input	65	A8	ı	Address input
	23	BA1	ı	Bank select address input	66	A9	ı	Address input
	24	A10/AP	ı	Address input	67	CKE	- 1	Clock enable input
	25	A0		Address input	68	CLK	-	System clock input
	26	A1	ı	Address input	69	N.C	-	No connection
	27	A2		Address input	70	N.C	-	No connection
	28	DQM2	_	Data input / output mask input	71	DQM1	- 1	Data input / output mask input
	29	VDD	ı	Power supply	72	Vss	-	Ground
	30	N.C	-	No connection	73	N.C	_	No connection
	31	DQ16	I/O	Data input / output	74	DQ8	I/O	Data input / output
L	32	VssQ	-	Ground for data output	75	VDDQ	-	Power supply for data output
L	33	DQ17	I/O	Data input / output	76	DQ9	I/O	Data input / output
L	34	DQ18	I/O	Data input / output	77	DQ10	I/O	Data input / output
L	35	VDDQ	-	Power supply for data output	78	VssQ	-	Ground for data output
L	36	DQ19	I/O	Data input / output	79	DQ11	I/O	Data input / output
L	37	DQ20	I/O	Data input / output	80	DQ12	I/O	Data input / output
	38	Vssq	_	Ground for data output	81	VDDQ	_	Power supply for data output
	39	DQ21	I/O	Data input / output	82	DQ13	I/O	Data input / output
	40	DQ22	I/O	Data input / output	83	DQ14	I/O	Data input / output
	41	VDDQ	-	Power supply for data output	84	VssQ	-	Ground for data output
L	42	DQ23	I/O	Data input / output	85	DQ15	I/O	Data input / output
L	43	VDD	_	Power supply	86	Vss	_	Ground

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92

PDP-R06U

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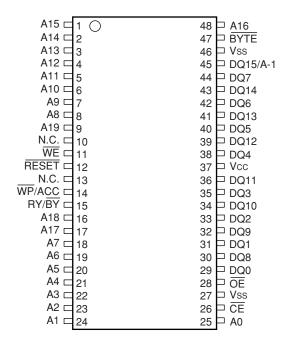
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# ■ MBM29DL162TE70TN (MR MAIN ASSY : IC5207, IC7002)

16M Flash for Carrera MANTA

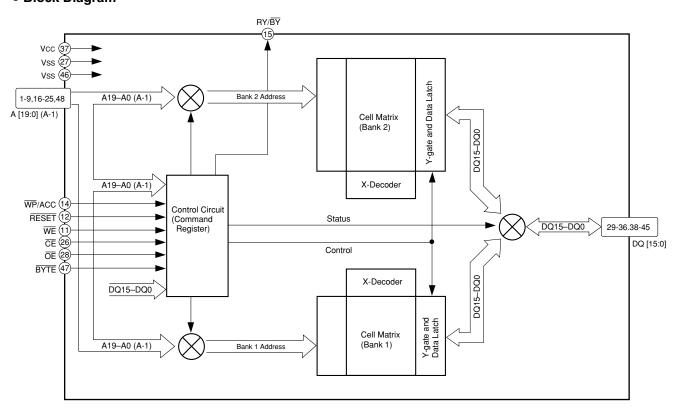
### • Pin Arrangement (Top view)

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#### Block Diagram

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93

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PDP-R06U

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# • Pin Function

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~ 1 111	i diletion					
No.	Pin Name	I/O	Pin Function			
1	A15	- 1	Address input			
2	A14	- 1	Address input			
3	A13	I	Address input			
4	A12	1	Address input			
5	A11	1	Address input			
6	A10	1	Address input			
7	A9	1	Address input			
8	A8	- 1	Address input			
9	A19	- 1	Address input			
10	N.C.	- 1	No connection			
11	WE	- 1	Write enable input			
12	RESET	1	Hardware reset			
13	N.C.	_	No connection			
14	WP/ACC	1	Hardware write protect / Acceleration			
15	RY/BY	0	Ready / Busy output			
16	A18	1	Address input			
17	A17	1	Address input			
18	A7	1	Address input			
19	A6	1	Address input			
20	A5	1	Address input			
21	A4	1	Address input			
22	A3	1	Address input			
23	A2	1	Address input			
24	A1	I	ddress input			
25	A0	I	Address input			
26	CE	I	Chip enable input			
27	Vss	_	Ground			
28	ŌĒ	I	Output enable input			
29	DQ0	I/O	Data input / output			
30	DQ8	I/O	Data input / output			
31	DQ1	I/O	Data input / output			
32	DQ9	I/O	Data input / output			
33	DQ2	I/O	Data input / output			
34	DQ10	I/O	Data input / output			
35	DQ3	I/O	Data input / output			
36	DQ11	I/O	Data input / output			
37	Vcc		Power supply			
38	DQ4	I/O	Data input / output			
39	DQ12	I/O	Data input / output			
40	DQ5	I/O	Data input / output			
41	DQ13	I/O	Data input / output			
42	DQ6	I/O	Data input / output			
43	DQ14	I/O	Data input / output			
44	DQ7	I/O	Data input / output			
45	DQ15/A-1	I/O	Data input / output / Address input			
46	Vss		Ground			
47	BYTE	I	Selects 8-bit or 16-bit mode			
48	A16	I	Address input			

94

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PDP-R06U

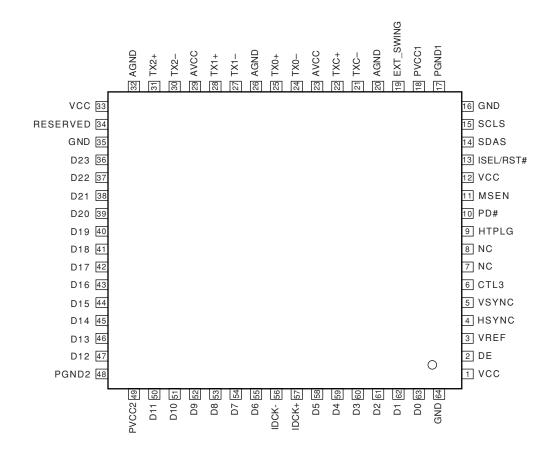
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# ■ SII170BCLG64 (MR MAIN ASSY : IC7202)

• DVI Tx

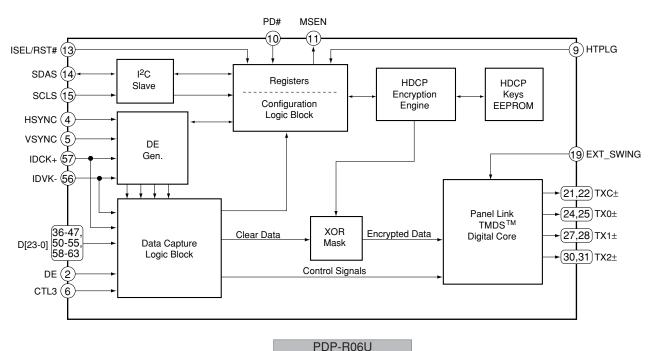
#### Pin Arrangement (Top view)

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#### Block Diagram

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95

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# Pin Function

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No.	Pin Name	I/O	Pin Function	
1	VCC	-	Digital power supply (3.3V)	
2	DE	-	Data enable	
3	VREF	-	3.3V fixed	
4	HSYNC	_	Horizontal sync. control signal input	
5	VSYNC	1	Vertical sync. control signal input	
6	CTL3	1	External CTL3 input	
7	NC	ı	No connection	
8	NC	ı	No connection	
9	HTPLG	_	Monitor chrage input	
10	PD#	_	Power down input (Active low)	
11	MSEN	0	Monitor sense output (open-collector output)	
12	VCC	ı	Digital power supply (3.3V)	
13	ISEL/RST#	-	I2C interface selecting input High: I2C interface is active	
14	SDAS	1/0	DDC I2C data input/output	
15	SCLS	_	DDC I2C clock input	
16	GND	-	Digital ground	
17	PGND1	-	PLL analog ground	
18	PVCC1	1	Analog power supply for PLL of primary side (3.3V)	
19	EXT_SWING	1	Voltage regulation adjustment	
20	AGND	1	Analog ground	
21	TXC-	0	Differential signal clock output of TMDS Low voltage	
22	TXC+	0	Differential signal clock output of TMDS Low voltage	
23	AVCC	ı	Analog power supply (3.3V)	
24	TX0-	0	Differential signal clock output of TMDS Low voltage	
25	TX0+	0	Differential signal clock output of TMDS Low voltage	
26	AGND	-	Analog ground	
27	TX1-	0	Differential signal clock output of TMDS Low voltage	
28	TX1+	0	Differential signal clock output of TMDS Low voltage	
29	AVCC	-	Analog power supply (3.3V)	
30	TX2-	0	Differential signal clock output of TMDS Low voltage	
31	TX2+	0	Differential signal clock output of TMDS Low voltage	
32	AGND	-	Analog ground	
33	VCC	ı	Digital power supply (3.3V)	
34	RESERVED	1	Reserved pin for Silicon Image Normally, fixed to low.	
35	GND	1	Digital ground	
36	D23	I	24-bit pixel bus input	
37	D22	I	24-bit pixel bus input	
38	D21	I	24-bit pixel bus input	
39	D20	I	24-bit pixel bus input	
40	D19	I	24-bit pixel bus input	

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96

PDP-R06U 1 ■ 2 ■ 3 ■ 4

No.	Pin Name	I/O	Pin Function	
	D18			
41		I	24-bit pixel bus input	
42	D17		24-bit pixel bus input	
43	D16	I	24-bit pixel bus input	
44	D15	I	24-bit pixel bus input	
45	D14	I	24-bit pixel bus input	
46	D13	I	24-bit pixel bus input	
47	D12	1	24-bit pixel bus input	
48	PGND2	_	PLL analog ground	
49	PVCC2	_	Analog power supply for filter PLL (3.3V)	
50	D11	1	24-bit / 12-bit pixel bus input	
51	D10	I	24-bit / 12-bit pixel bus input	
52	D9	I	24-bit / 12-bit pixel bus input	
53	D8	I	l-bit / 12-bit pixel bus input	
54	D7	1	4-bit / 12-bit pixel bus input	
55	D6	1	4-bit / 12-bit pixel bus input	
56	IDCK-	I	Data clock - input	
57	IDCK+	- 1	Data clock + input	
58	D5	I	24-bit / 12-bit pixel bus input	
59	D4	I	24-bit / 12-bit pixel bus input	
60	D3	- 1	24-bit / 12-bit pixel bus input	
61	D2	I	24-bit / 12-bit pixel bus input	
62	D1	I	24-bit / 12-bit pixel bus input	
63	D0	I	24-bit / 12-bit pixel bus input	
64	GND	_	Digital ground	

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# ■ AXY1117 (MR MAIN ASSY: U4201)

• 3 Outputs DD Control Unit

# • Pin Arrangement

	Vin	<u> </u>	14 🗌	Vo2
В	Vin	_ 2	13 🗌	Vo2
	GND	□ 3		
	GND	<u> </u>	12 🗌	GND
	ON/OFF	□ 5		
	GND	□ 6	11 🗌	GND
			10 🗌	GND
С			9 🗌	Vo1
	Vo3	☐ 7	8 🗌	Vo1

#### Pin Function

No.	Pin Name	Pin Function
1	Vin	land.
2	Vin	Input Input
3	GND	
4	GND	Ground for input side
5	ON/OFF	Output ON/OFF
6	GND	Ground for output side
7	Vo3	1.8V output
8	Vo1	3.3V output
9	Vo1	3.3V output
10	GND	
11	GND	Ground for output side
12	GND	
13	Vo2	1.2V output
14	Vo2	1.2V output

98

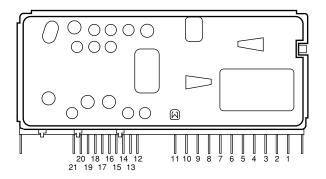
PDP-R06U

# ■ AXF1130 (MR MAIN ASSY : U4401)

• Front End

# • Pin Arrangement

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# Pin Function

No.	Pin Name	Pin Function
1	AGC	AGC (4.0V gain max.)
2	TU	Power supply for tuner
3	ADRS	
4	SCL	Terminal for I <sup>2</sup> C bus control
5	SDA	
6	NC	No connection
7	V SUPPLY	5.0V
8	IF SW	0V/5.0V
9	BTL	30.0V
10	NC	No connection
11	IF1	IF
12	NC	No connection
13	BV	5.0V
14	AUDIO OUT	Audio output
15	GND	Ground
16	AFT	AFT output
17	AGC OUT	AGC output
18	VIDEO OUT	Video output
19	NC	No connection
20	GND	Ground
21	NC	No connection

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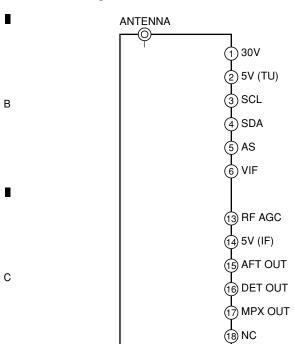
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# ■ AXF1148 (MR MAIN ASSY : U4402)

• Front End

# • Pin Arrangement



#### Pin Function

No.	Pin Name	Pin Function
1	30V	Power supply for 30V
2	5V (TU)	Power supply for tuner
3	SCL	Townsing for Oll coloration positel data
4	SDA	Terminal for CH selection serial data
5	AS	Address selection
6	VIF	VIF output
13	RF AGC	RF AGC terminal
14	5V (IF)	Power supply for IF
15	AFT OUT	Analog AFT output
16	DET OUT	VIDEO output (Typical = 1.0Vp-p)
17	MPX OUT	MPX output
18	NC	No connection

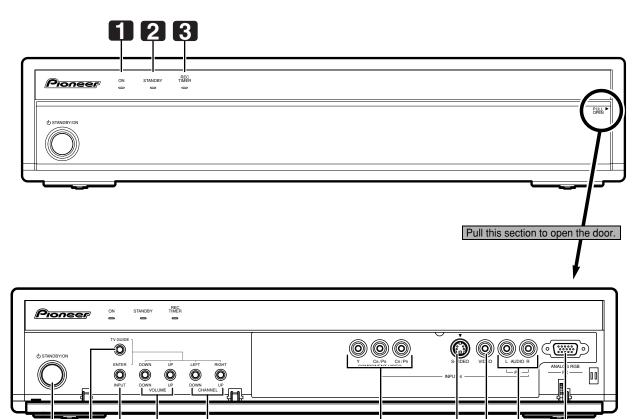
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PDP-R06U

# 8. PANEL FACILITIES

#### **■** Front view



1 POWER ON indicator

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- 2 STANDBY indicator
- 3 REC TIMER indicator
- 4 STANDBY/ON button
- 5 TV GUIDE button\*

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- **6 INPUT** button (**ENTER** button\*)
- 7 VOLUME UP/DOWN buttons (UP/DOWN buttons\*)
- 8 CHANNEL UP/DOWN buttons (LEFT/RIGHT buttons\*)

9 INPUT 4 terminals (COMPONENT VIDEO: Y, CB/PB, CR/PR)

101112 13

- **10** INPUT 4 terminal (S-VIDEO)
- 11 INPUT 4 terminal (VIDEO)

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- 12 INPUT 4/PC terminals (AUDIO)
- 13 PC INPUT terminal (ANALOG RGB)

The buttons with asterisks (\*) can operate the TV Guide On Screen™ system.

101

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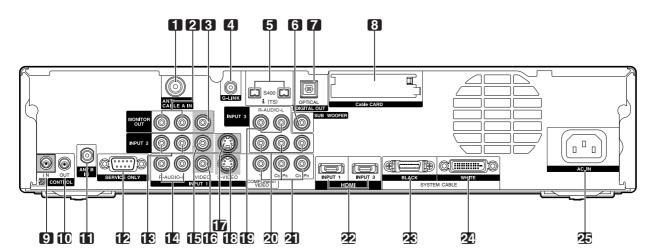
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- 1 ANT/CABLE A IN terminal
- 2 MONITOR OUT terminals (AUDIO)
- 3 MONITOR OUT terminal (VIDEO)
- 4 G-LINK terminal
- 5 i.LINK terminals
- 6 SUB WOOFER terminal
- 7 DIGITAL OUT terminal (OPTICAL)
- 8 CableCARD™ slot
- 9 CONTROL IN terminal
- 10 CONTROL OUT terminal
- 11 ANT B IN terminal
- **12** RS-232C terminal (used for factory setup)
- 13 INPUT 2 terminals (AUDIO)
- 14 INPUT 1 terminals (AUDIO)

15 INPUT 2 terminal (VIDEO)

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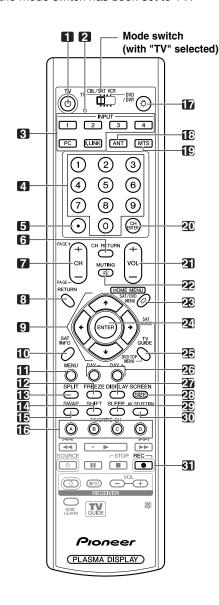
- 16 INPUT 1 terminal (VIDEO)
- 17 INPUT 2 terminal (S-VIDEO)
- **18** INPUT 1 terminal (S-VIDEO)
- 19 INPUT 3 terminals (AUDIO)
- 20 INPUT 3 terminals
  - (COMPONENT VIDEO: Y, CB/PB, CR/PR)
- 21 INPUT 1 terminals
  - (COMPONENT VIDEO: Y, CB/PB, CR/PR)
- 22 HDMI terminals (INPUT1/INPUT3)
- 23 SYSTEM CABLE terminal (BLACK)
- 24 SYSTEM CABLE terminal (WHITE)
- 25 AC IN terminal

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#### ■ Remote control unit

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This section describes the functions of the buttons available when the mode switch has been set to TV.



- 1 **TV**  $\circlearrowleft$ : Turns on the power to the Plasma Display or places it into standby mode.
- 2 Transmission confirmation LED
- 3 INPUT: Selects an input source of the Plasma Display. (INPUT 1, INPUT 2, INPUT 3, INPUT 4, PC, i.LINK)
- 4 0 9: Selects the channel.
- 5 (dot): Enters a dot.
- 6 CH RETURN: Returns to the previous channel. This button is disabled while the TV Guide On Screen™ system is displayed.
- 7 CH +/-: Selects the channel.

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- **PAGE** +/– (for the TV Guide On Screen<sup>™</sup> system): Scrolls the program listing screen vertically.
- 8 RETURN: Returns to the previous menu screen.
- **9** +/ +/ +: Selects a desired item on the menu screen.

- 10 INFO: Displays a channel banner when a TV program is being watched.
  - When the TV Guide On Screen, system is in operation, displays information about the currently highlighted channel (if available).
- 11 MENU: Displays a panel menu in the TV Guide On Screen™ system.
- **12 FREEZE**: Freezes a frame from a moving image. Press again to cancel the function.
- **13 SPLIT**: Switches the screen mode among 2-screen, picture-in-picture, and single-screen.
- **14 SHIFT**: Moves the location of the small screen when in the picture-in-picture mode.
- **15 SWAP**: Switches between the two screens when in the 2-screen or picture-in-picture mode.
- 16 FAVORITE CH (A, B, C, D): Selects any of the four preset channels. While watching, you can toggle the set channels by pressing A, B, C and D.
- 17 \(\tilde{\to}\): When pressed, all buttons on the remote control unit will light. The lighting will turn off if no operations are performed within about 5 seconds.

This button is used for performing operations in dark places.

- **18 ANT**: Selects the antenna (A, B).
- 19 MTS: Selects the MTS/SAP.
- 20 CH ENTER: Executes a channel number.
- 21 VOL +/-: Sets the volume.
- 22 MUTING: Mutes the sound.
- 23 HOME MENU: Displays the Home Menu screen.
- 24 ENTER: Executes a command.
- **25 TV GUIDE**: Displays the TV Guide On Screen™ system.
- 26 DAY +/-: Jumps to the next or previous day of program listings in the TV Guide On Screen™ Listing service.
- 27 **DISPLAY**: Displays the channel information.
- 28 SCREEN SIZE: Selects the screen size.
- 29 SLEEP: Sets the sleep timer.
- **30 AV SELECTION**: Selects audio and video settings. (AV mode: STANDARD, DYNAMIC, MOVIE, GAME, USER. PC mode: STANDARD, USER.)
- 31 (REC): When using the TV Guide On Screen<sup>TM</sup> System, starts recording with a connected VCR or D-VHS recorder.

103

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A ■ Cleaning

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• Before shipping out the product, be sure to clean the following positions by using the prescribed cleaning tools:

11 0 1	,	01 , 0 1
Position to be cleaned	Cleaning tools	Remark
Fans	Cleaning paper : GED-008	Refer to "2.3 EXTERIOR SECTION", "7.1.2 DISASSEMBLY SECTION".

# Pioneer sound.vision.soul

# Service Manual



ORDER NO. ARP3280

MEDIA RECEIVER

# PDP-R06U PRO-R06U

#### THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

Model	Туре	Power Requirement	Remarks
PDP-R06U	KUCXJ	AC 120V	
PRO-R06U	KUCXJ	AC 120V	

#### This service manual should be used together with the following manual(s).

Model No.	Order No.	Remarks
PDP-R06U, PRO-R06U	ARP3279	EXPLODED VIEWS, BLOCK DIAGRAM etc.



For details, refer to "Important Check Points for good servicing".

PIONEER CORPORATION 4-1, Meguro 1-chome, Meguro-ku, Tokyo 153-8654, Japan PIONEER ELECTRONICS (USA) INC. P.O. Box 1760, Long Beach, CA 90801-1760, U.S.A. PIONEER EUROPE NV Haven 1087, Keetberglaan 1, 9120 Melsele, Belgium PIONEER ELECTRONICS ASIACENTRE PTE. LTD. 253 Alexandra Road, #04-01, Singapore 159936 © PIONEER CORPORATION 2005

# SAFETY INFORMATION



This service manual is intended for qualified service technicians; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual.

Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

#### WARNING

This product contains lead in solder and certain electrical parts contain chemicals which are known to the state of California to cause cancer, birth defects or other reproductive harm.

Health & Safety Code Section 25249.6 - Proposition 65

#### NOTICE

(FOR CANADIAN MODEL ONLY)

Fuse symbols - (fast operating fuse) and/or - (slow operating fuse) on PCB indicate that replacement parts must be of identical designation.

#### **REMARQUE**

(POUR MODÈLE CANADIEN SEULEMENT)

Les symboles de fusible - (fusible de type rapide) et/ou - (fusible de type lent) sur CCI indiquent que les pièces de remplacement doivent avoir la même désignation.

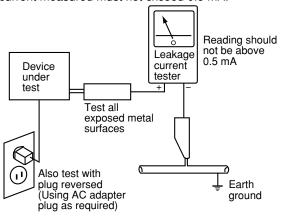
#### (FOR USA MODEL ONLY)

#### 1. SAFETY PRECAUTIONS

The following check should be performed for the continued protection of the customer and service technician.

#### LEAKAGE CURRENT CHECK

Measure leakage current to a known earth ground (water pipe, conduit, etc.) by connecting a leakage current tester such as Simpson Model 229-2 or equivalent between the earth ground and all exposed metal parts of the appliance (input/output terminals, screwheads, metal overlays, control shaft, etc.). Plug the AC line cord of the appliance directly into a 120V AC 60 Hz outlet and turn the AC power switch on. Any current measured must not exceed 0.5 mA.



AC Leakage Test

ANY MEASUREMENTS NOT WITHIN THE LIMITS OUTLINED ABOVE ARE INDICATIVE OF A POTENTIAL SHOCK HAZARD AND MUST BE CORRECTED BEFORE RETURNING THE APPLIANCE TO THE CUSTOMER.

#### 2. PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in the appliance have special safety related characteristics. These are often not evident from visual inspection nor the protection afforded by them necessarily can be obtained by using replacement components rated for voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this Service Manual.

Electrical components having such features are identified by marking with a  $\triangle$  on the schematics and on the parts list in this Service Manual.

The use of a substitute replacement component which does not have the same safety characteristics as the PIONEER recommended replacement one, shown in the parts list in this Service Manual, may create shock, fire, or other hazards.

Product Safety is continuously under review and new instructions are issued from time to time. For the latest information, always consult the current PIONEER Service Manual. A subscription to, or additional copies of, PIONEER Service Manual may be obtained at a nominal charge from PIONEER.

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PDP-R06U

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In this manual, procedures that must be performed during repairs are marked with the below symbol.

Please be sure to confirm and follow these procedures.

#### Product safety



Please conform to product regulations (such as safety and radiation regulations), and maintain a safe servicing environment by following the safety instructions described in this manual.

① Use specified parts for repair.

Use genuine parts. Be sure to use important parts for safety.

2 Do not perform modifications without proper instructions.

Please follow the specified safety methods when modification(addition/change of parts) is required due to interferences such as radio/TV interference and foreign noise.

3 Make sure the soldering of repaired locations is properly performed.

When you solder while repairing, please be sure that there are no cold solder and other debris. Soldering should be finished with the proper quantity. (Refer to the example)

4 Make sure the screws are tightly fastened.

Please be sure that all screws are fastened, and that there are no loose screws.

5 Make sure each connectors are correctly inserted.

Please be sure that all connectors are inserted, and that there are no imperfect insertion.

6 Make sure the wiring cables are set to their original state.

Please replace the wiring and cables to the original state after repairs. In addition, be sure that there are no pinched wires, etc.

Make sure screws and soldering scraps do not remain inside the product.

Please check that neither solder debris nor screws remain inside the product.

® There should be no semi-broken wires, scratches, melting, etc. on the coating of the power cord.

Damaged power cords may lead to fire accidents, so please be sure that there are no damages. If you find a damaged power cord, please exchange it with a suitable one.

9 There should be no spark traces or similar marks on the power plug.

When spark traces or similar marks are found on the power supply plug, please check the connection and advise on secure connections and suitable usage. Please exchange the power cord if necessary.

10 Safe environment should be secured during servicing.

When you perform repairs, please pay attention to static electricity, furniture, household articles, etc. in order to prevent injuries. Please pay attention to your surroundings and repair safely.

#### 2. Adjustments



To keep the original performance of the products, optimum adjustments and confirmation of characteristics within specification. Adjustments should be performed in accordance with the procedures/instructions described in this manual.

#### 3. Lubricants, Glues, and Replacement parts



Use grease and adhesives that are equal to the specified substance. Make sure the proper amount is applied.

#### 4. Cleaning



For parts that require cleaning, such as optical pickups, tape deck heads, lenses and mirrors used in projection monitors, proper cleaning should be performed to restore their performances.

#### 5. Shipping mode and Shipping screws

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To protect products from damages or failures during transit, the shipping mode should be set or the shipping screws should be installed before shipment. Please be sure to follow this method especially if it is specified in this manual.

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PDP-R06U

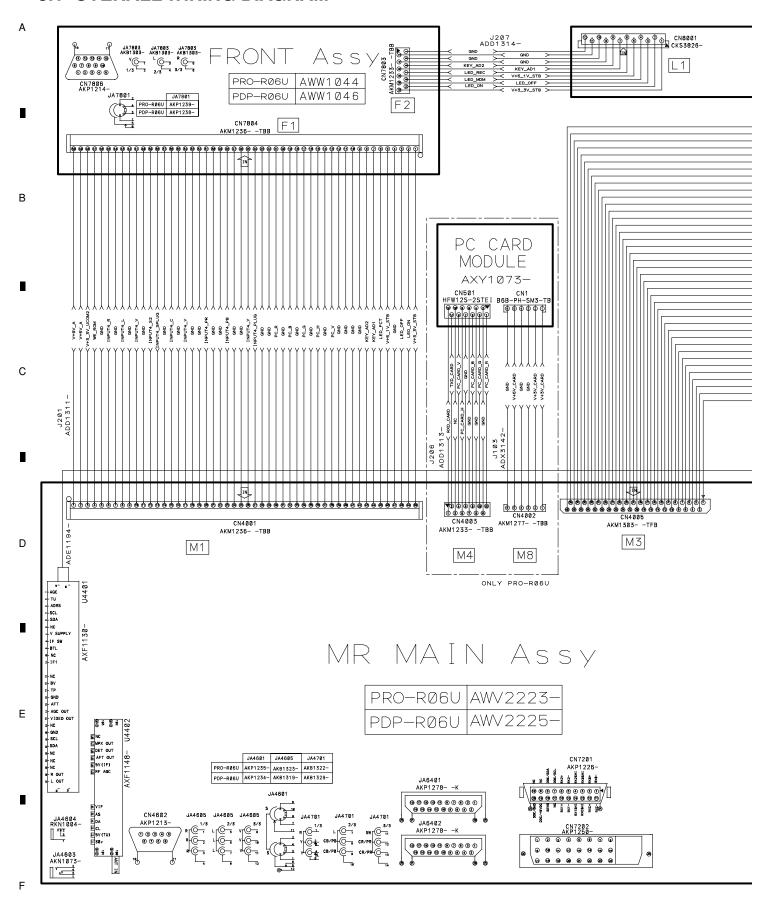
CONTENTS

	CONTENTS	
	3. SCHEMATIC DIAGRAM	6
Α	3.1 OVERALL WIRING DIAGRAM	
	3.2 MR DTB ASSY (1/14)	8
	3.3 MR DTB ASSY (2/14)	10
	3.4 MR DTB ASSY (3/14)	
	3.5 MR DTB ASSY (4/14)	14
	3.6 MR DTB ASSY (5/14)	16
	3.7 MR DTB ASSY (6/14)	18
	3.8 MR DTB ASSY (7/14)	20
	3.9 MR DTB ASSY (8/14)	22
	3.10 MR DTB ASSY (9/14)	24
	3.11 MR DTB ASSY (10/14)	26
	3.12 MR DTB ASSY (11/14)	28
	3.13 MR DTB ASSY (12/14)	30
В	3.14 MR DTB ASSY (13/14)	32
	3.15 MR DTB ASSY (14/14)	34
	3.16 MR MAIN ASSY (1/16)	36
	3.17 MR MAIN ASSY (2/16)	38
	3.18 MR MAIN ASSY (3/16)	40
	3.19 MR MAIN ASSY (4/16)	42
	3.20 MR MAIN ASSY (5/16)	44
	3.21 MR MAIN ASSY (6/16)	46
	3.22 MR MAIN ASSY (7/16)	
	3.23 MR MAIN ASSY (8/16)	50
	3.24 MR MAIN ASSY (9/16)	
	3.25 MR MAIN ASSY (10/16)	
С	3.26 MR MAIN ASSY (11/16)	
	3.27 MR MAIN ASSY (12/16)	
	3.28 MR MAIN ASSY (13/16)	
	3.29 MR MAIN ASSY (14/16)	
	3.30 MR MAIN ASSY (15/16)	
	3.31 MR MAIN ASSY (16/16)	
	3.32 LED ASSY	
	3.33 FRONT ASSY	
	3.34 POWER SUPPLY UNIT	72
	4. PCB CONNECTION DIAGRAM	
	4.1 MR DTB ASSY	74

5 6 7 8 В С D Е 5 PDP-R06U 5 8

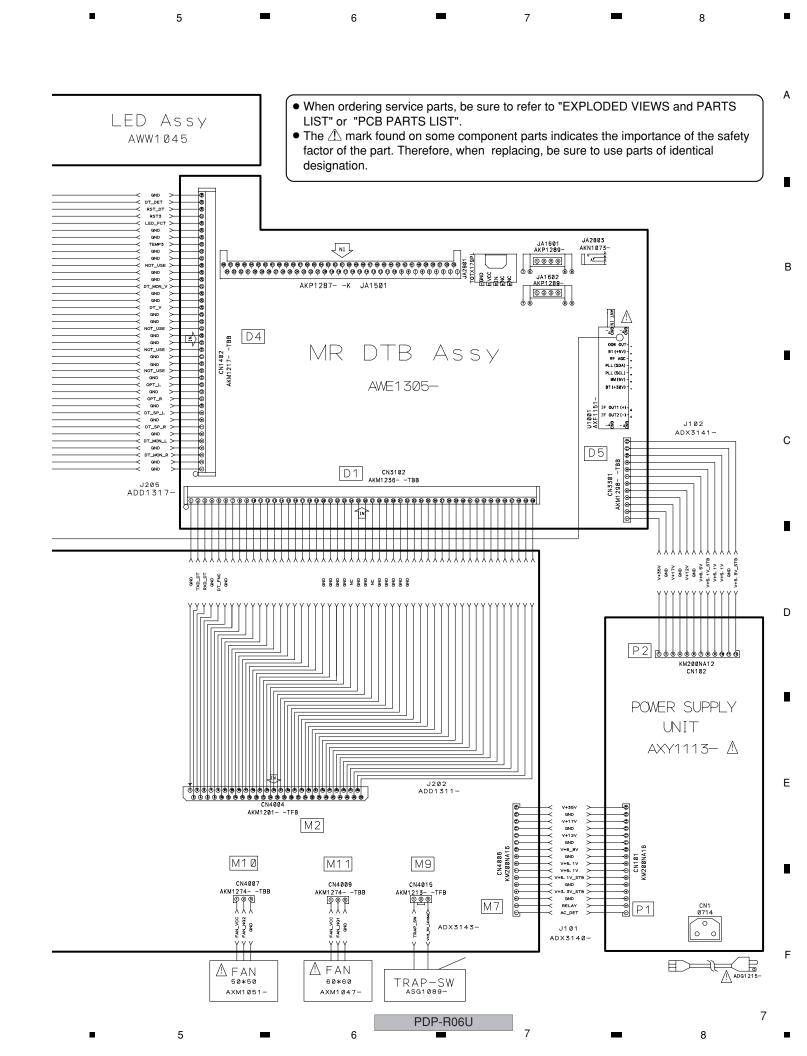
# 3. SCHEMATIC DIAGRAM

#### 3.1 OVERALL WIRING DIAGRAM



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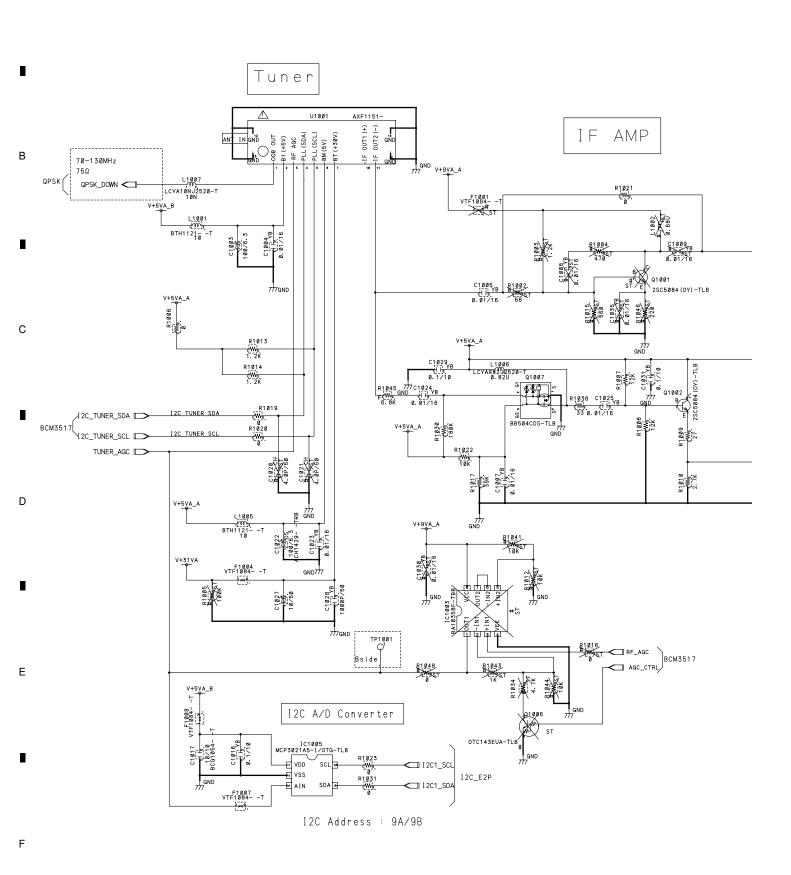
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### 3.2 MR DTB ASSY (1/14)

#### **MR DTB ASSY (1/14)**

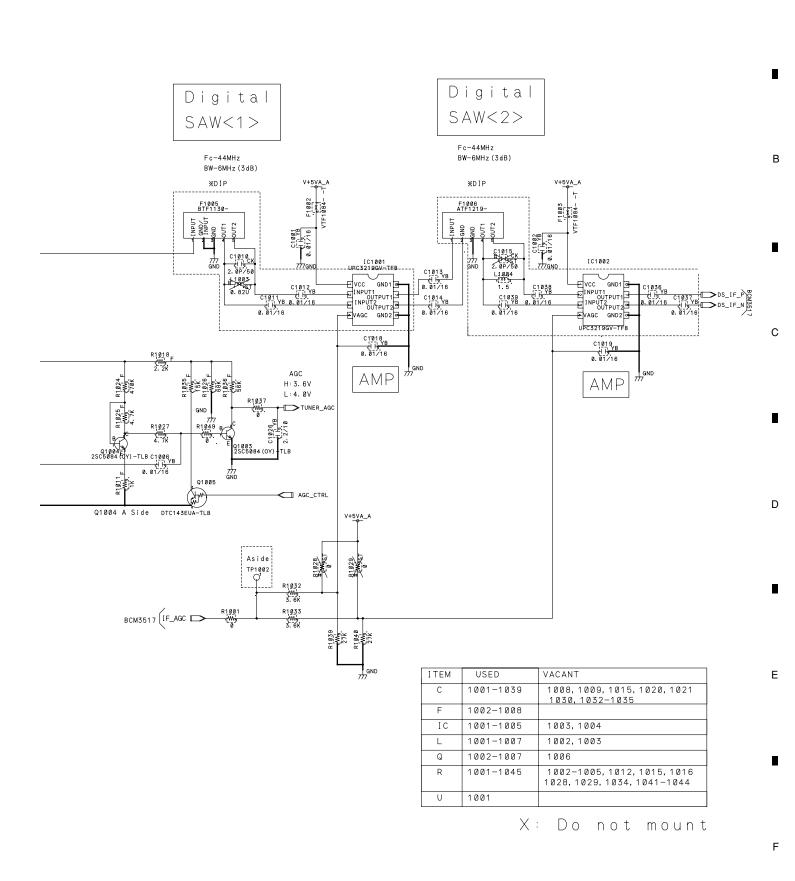
• TUNER / IF BLOCK



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PDP-R06U



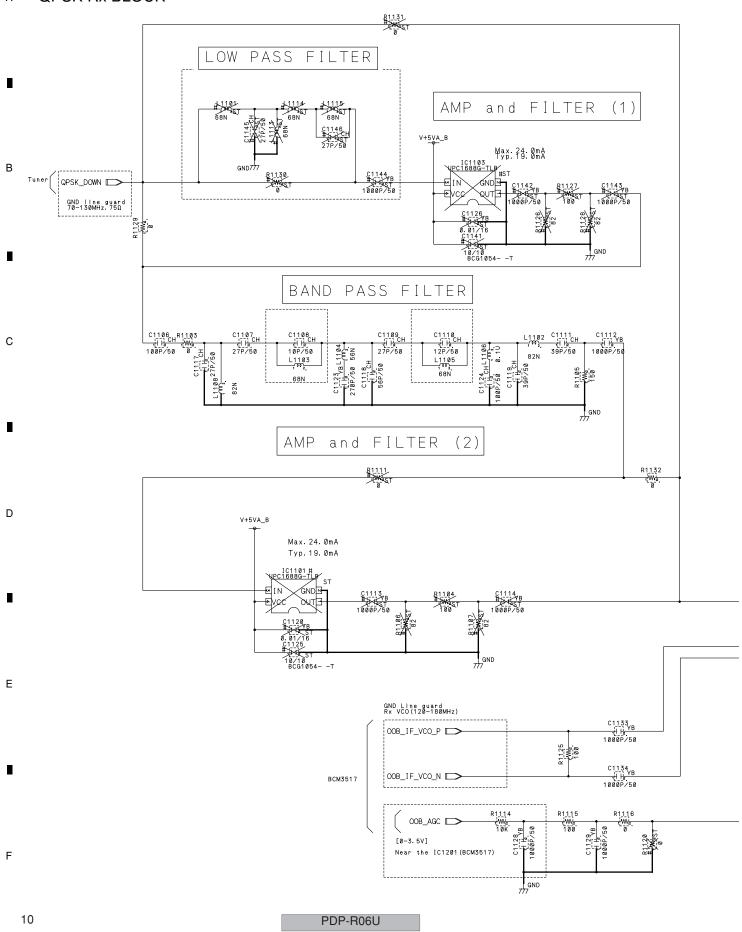
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### 3.3 MR DTB ASSY (2/14)

#### **MR DTB ASSY (2/14)**

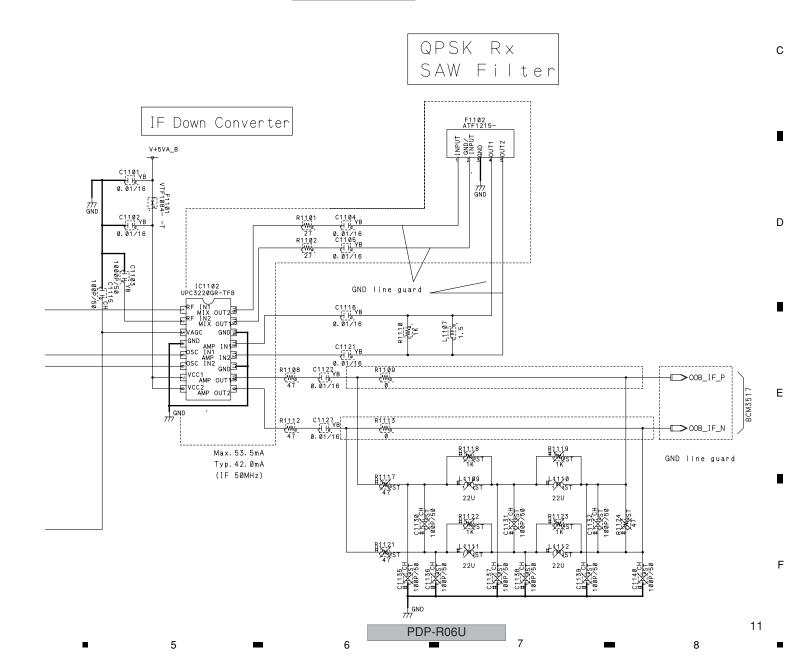
QPSK Rx BLOCK



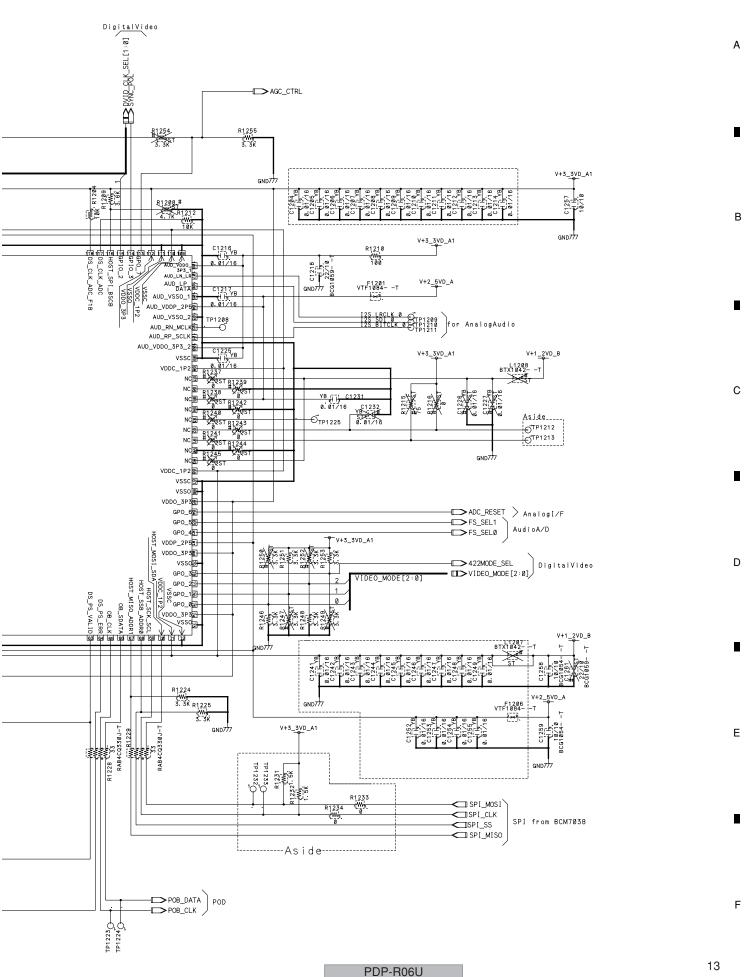
ITEM	USED	VACANT
С	1101-1134	1113, 1114, 1120, 1125, 1126 1130-1132
F	1101-1102	
I C	1102	
L	1102-1108	
Q		
R	1101-1132	1104, 1106, 1107, 1111, 1131 1117-1124, 1126-1128, 1130
_		

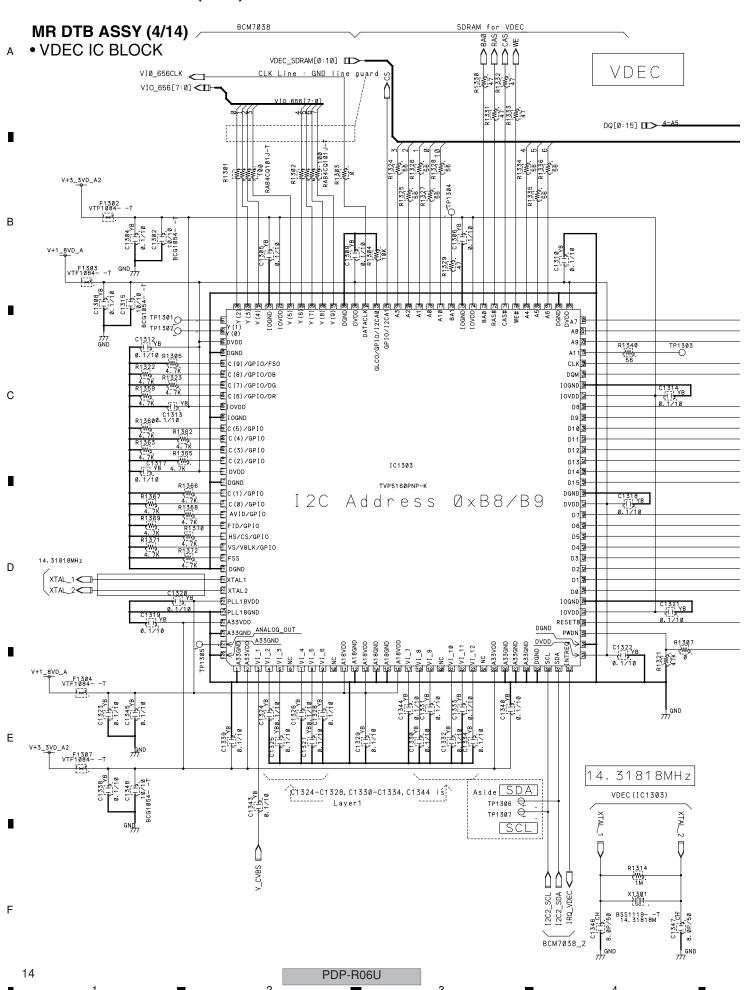
X:Don't mount

QPSK Rx



1201-1259 1202, 1226, 1227, 1232, 1240 3517\_TSOUT\_VALID 1203 1201-1206 DTC//43EUA-TLB 1201 D1202 SML-020MLT-TRB 1201-1203 1201-1255 1202, 1203, 1205, 1208, 1215 1216, 1223, 1226, 1230 1235-1245, 1247, 1249, 1250 7/7 GND 1252, 1254 (<sub>W</sub>)01202 1201 DTC143EUA-TI B X:Don't mount Sync Lock Status PDP-R06U 2





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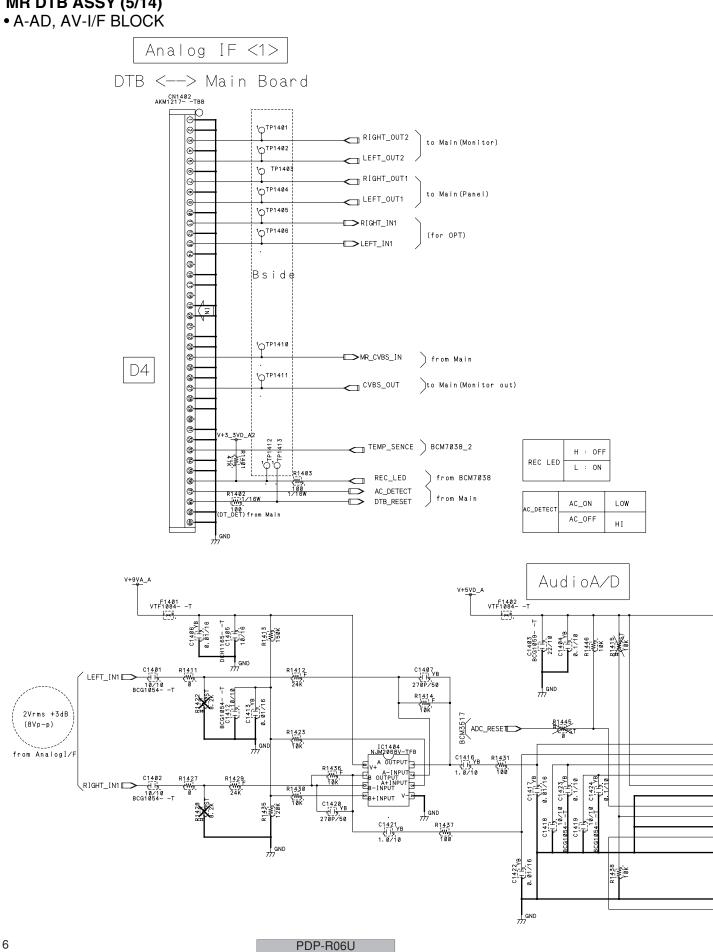
### 3.6 MR DTB ASSY (5/14)

#### **MR DTB ASSY (5/14)**

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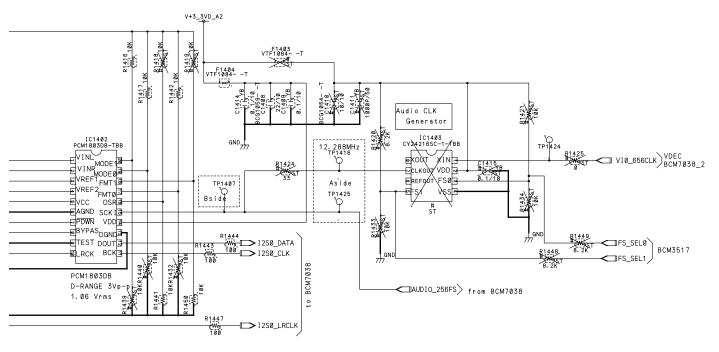
16



USED	VACANT
1401-1424	1410, 1411, 1415
1401-1404	1403
1402,1404	
1401-1450	1404-1410, 1415, 1418-1422 1424-1426, 1428, 1432-1434 1439, 1440, 1445, 1448, 1449
1402	
	1401-1424 1401-1404 1402, 1404  1401-1450

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X:Don't mount



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PDP-R06U

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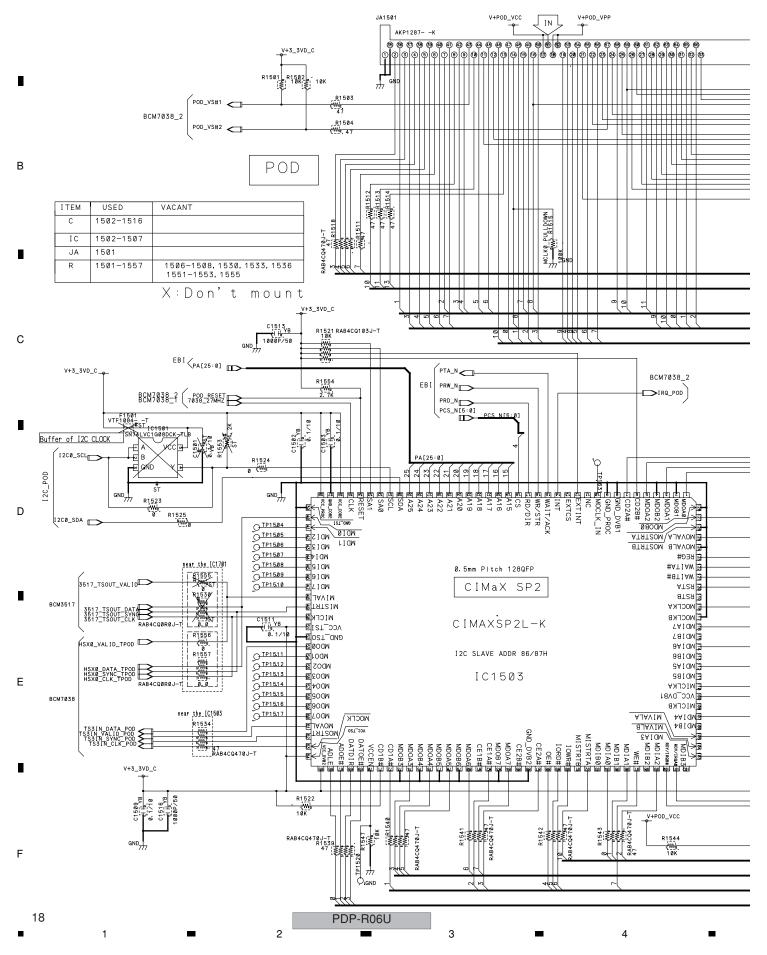
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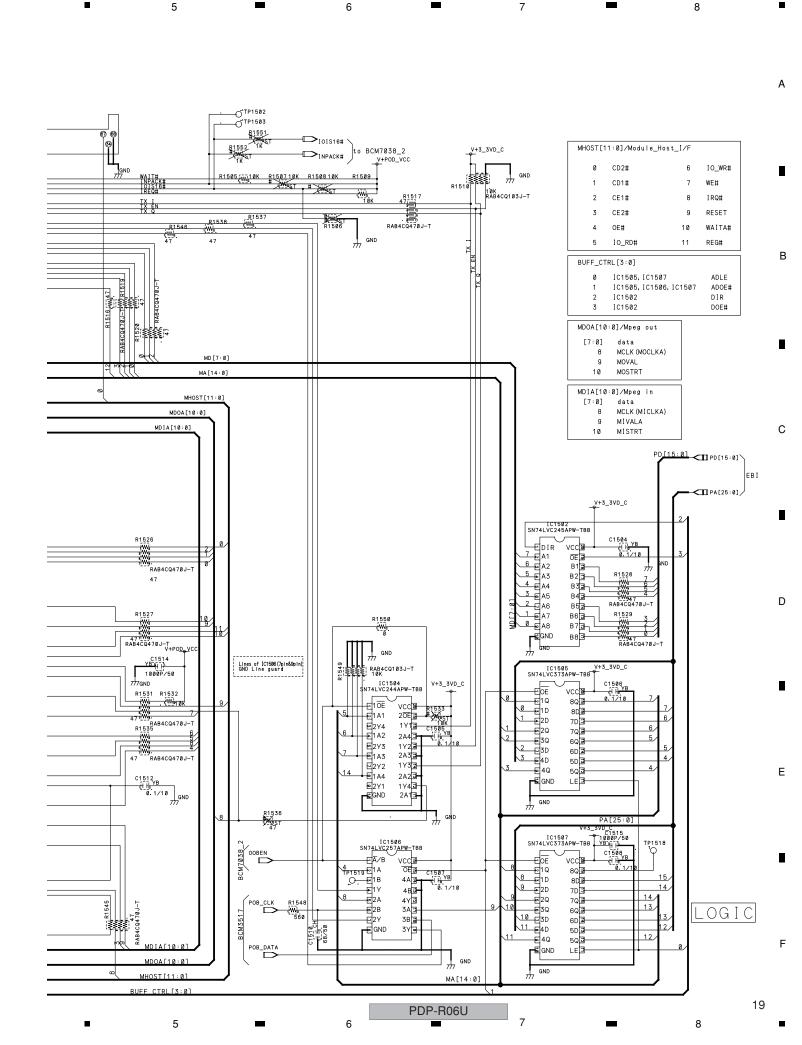
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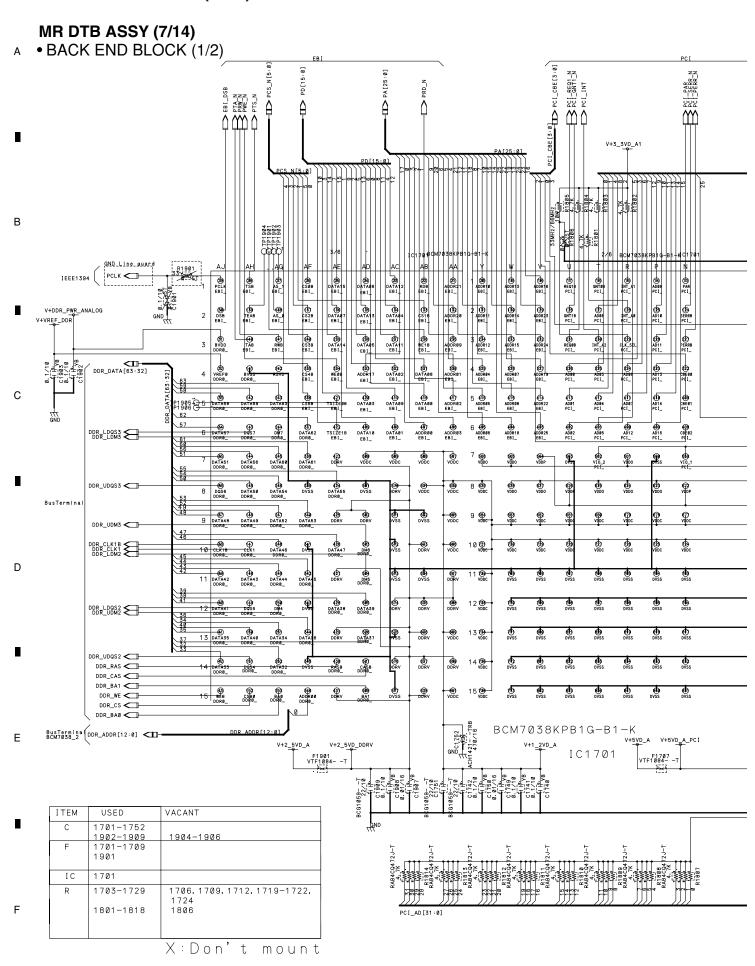
### 3.7 MR DTB ASSY (6/14)

#### **MR DTB ASSY (6/14)**

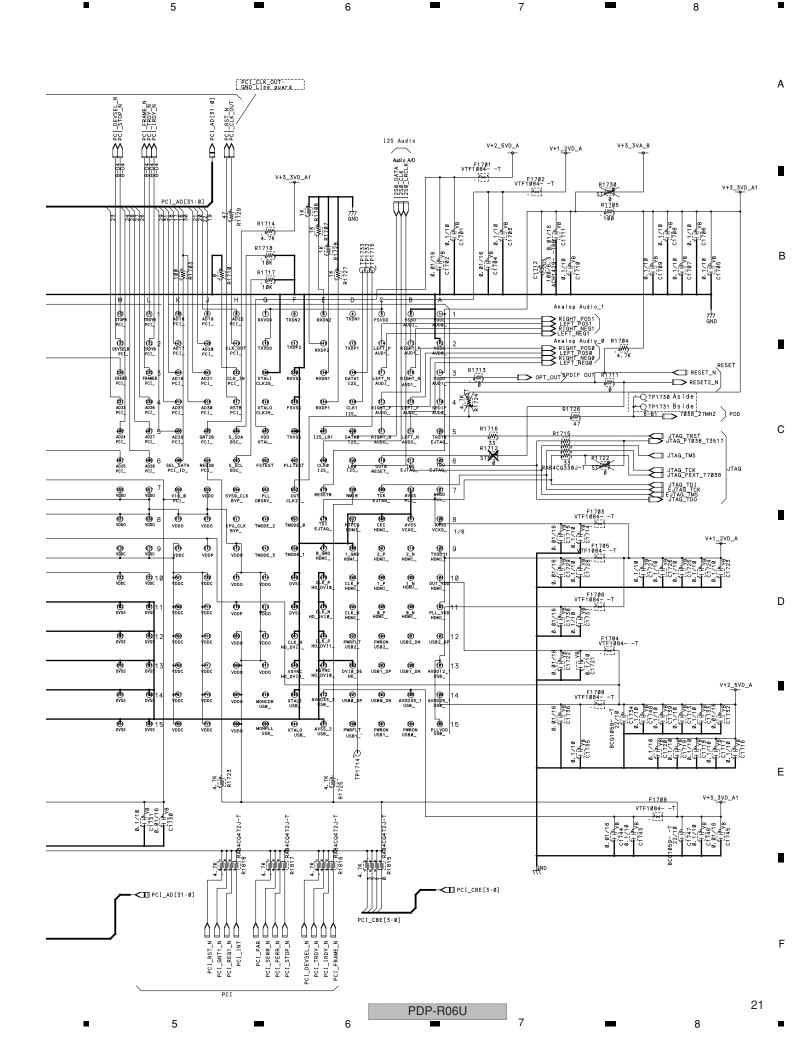
POD IC BLOCK







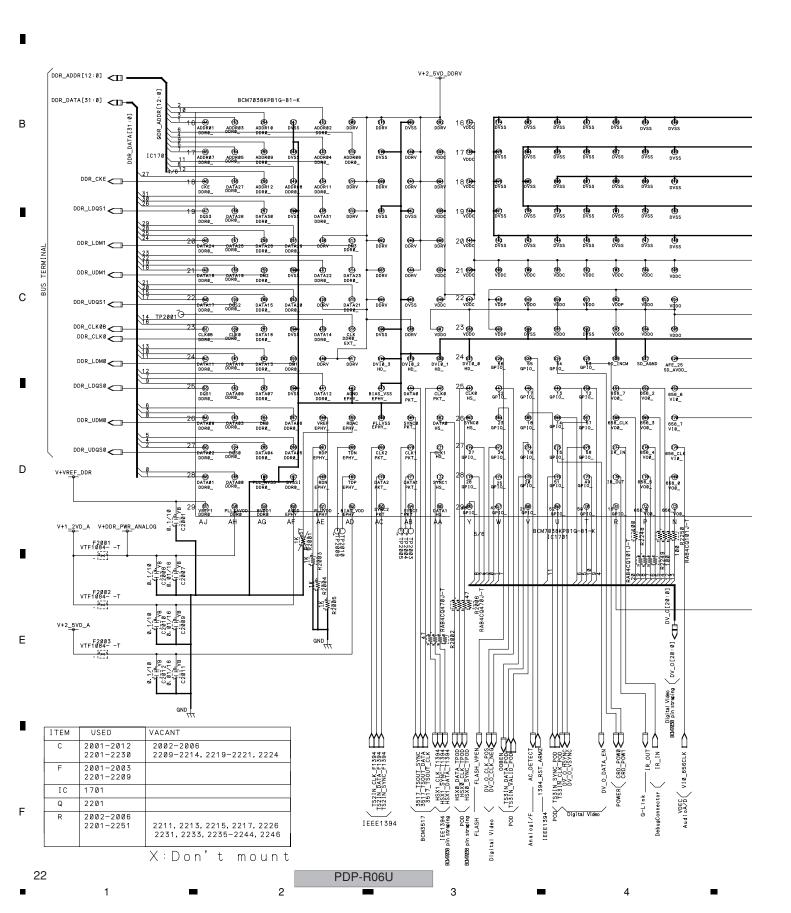
PDP-R06U

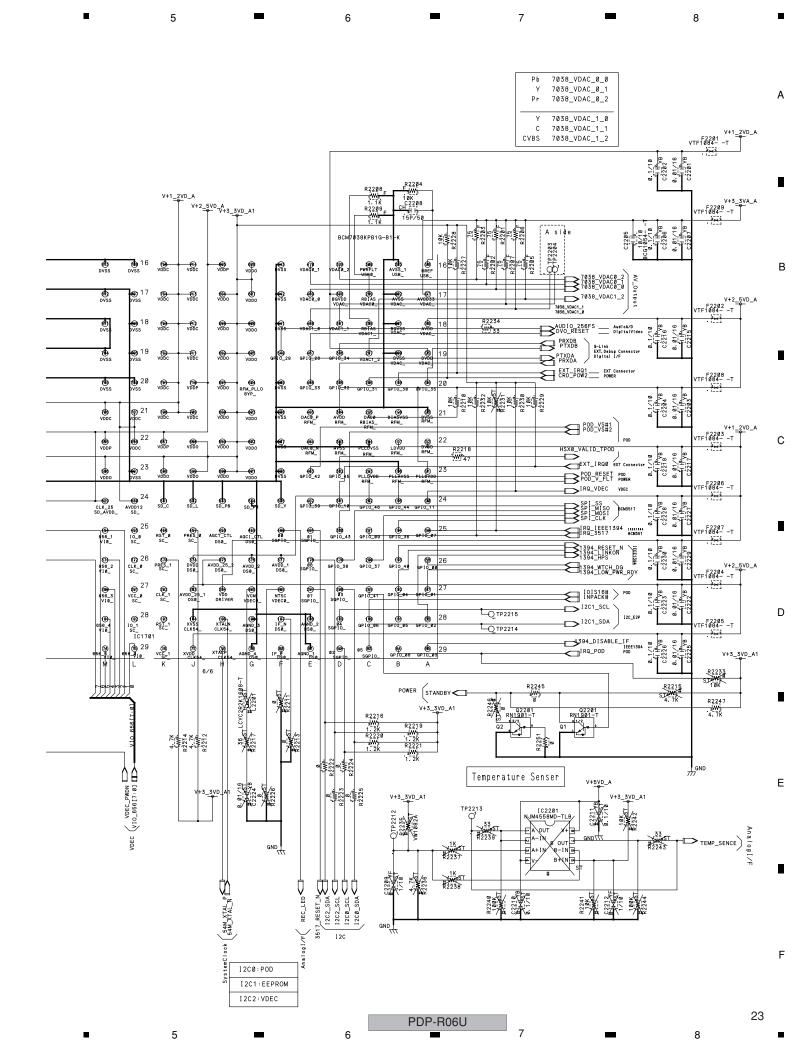


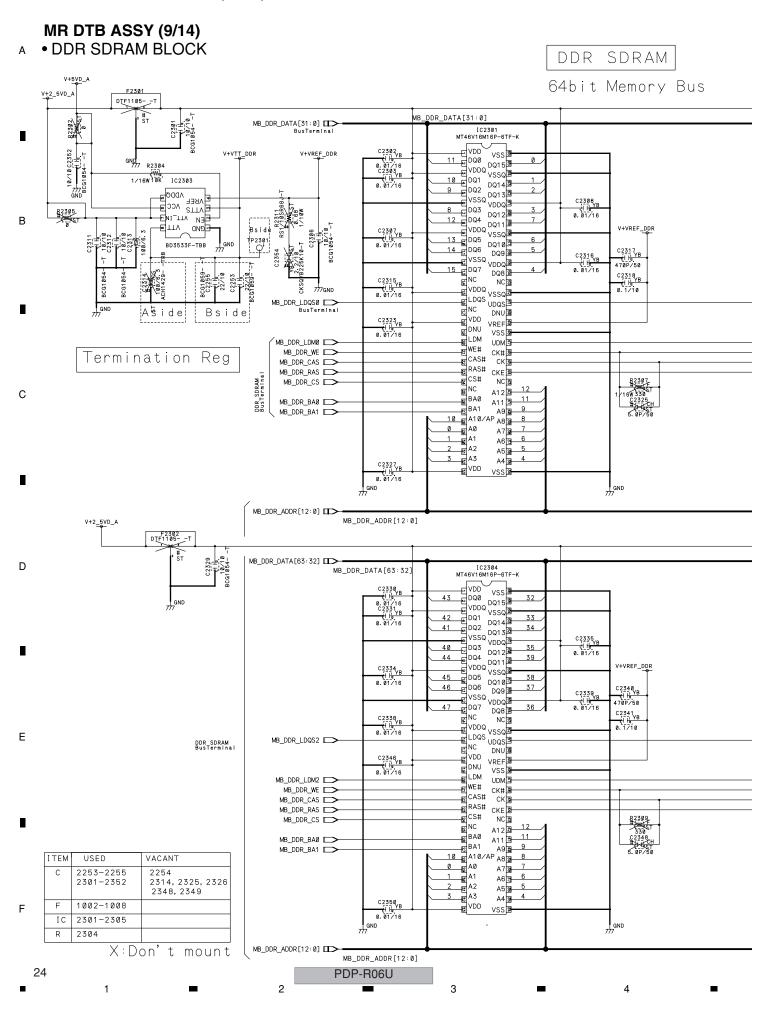
### 3.9 MR DTB ASSY (8/14)

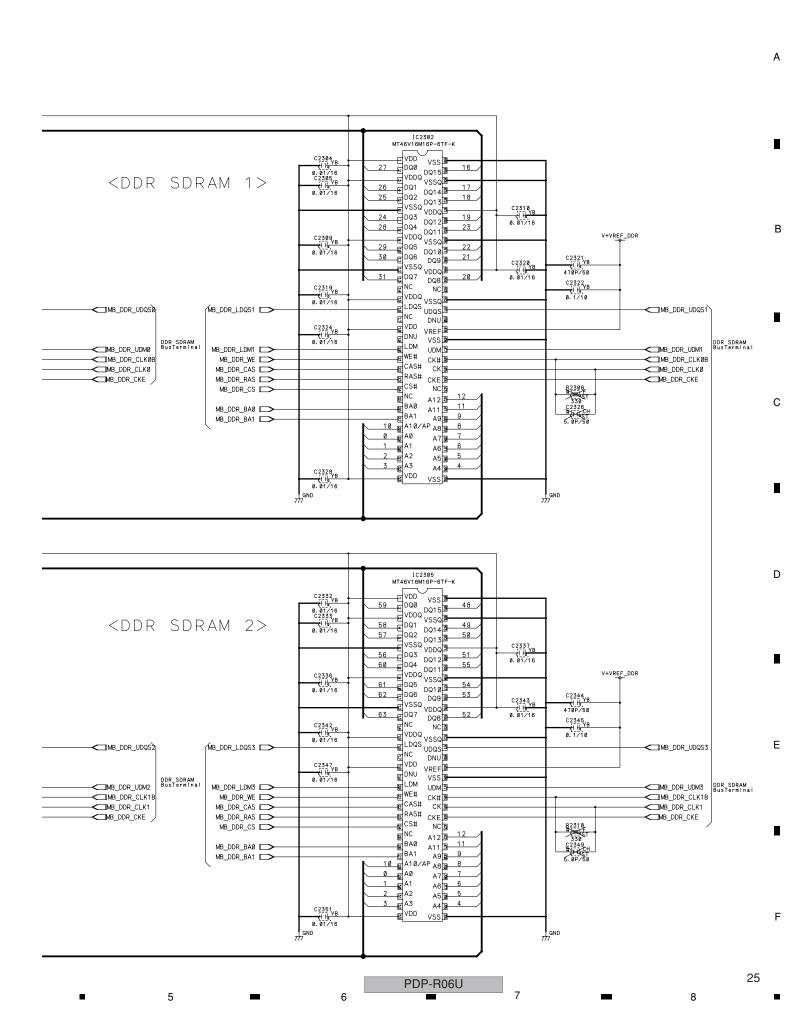
#### **MR DTB ASSY (8/14)**

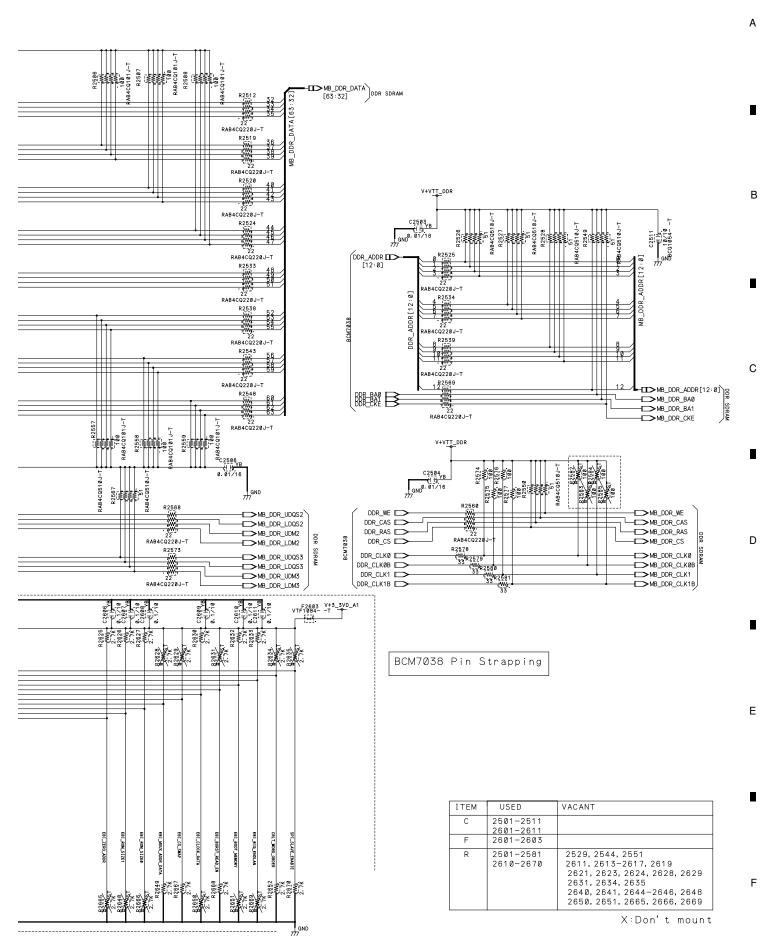
• BACK END BLOCK (2/2)









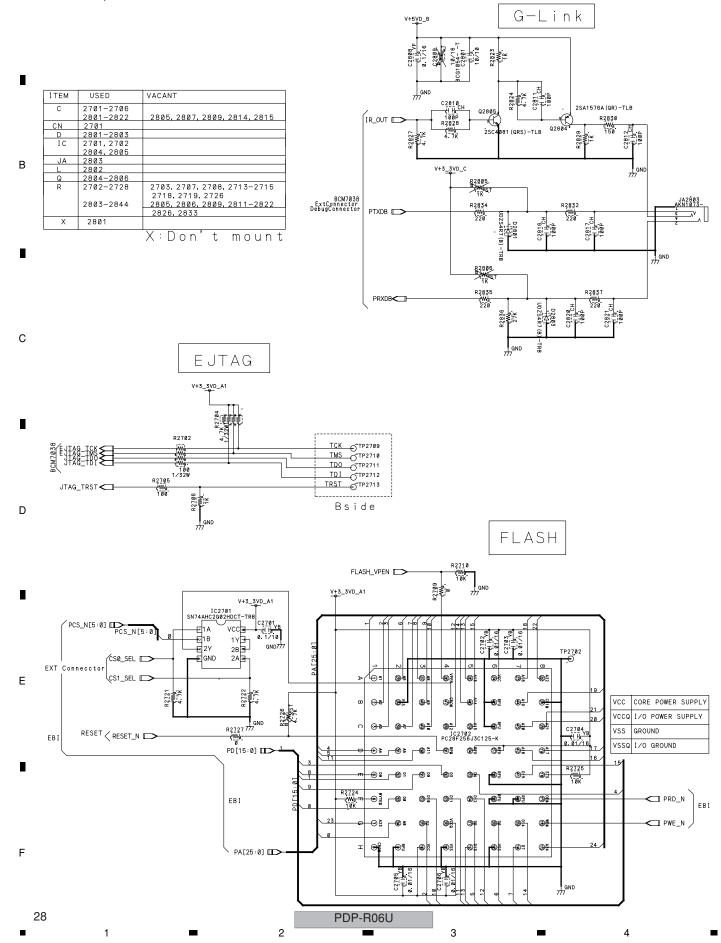


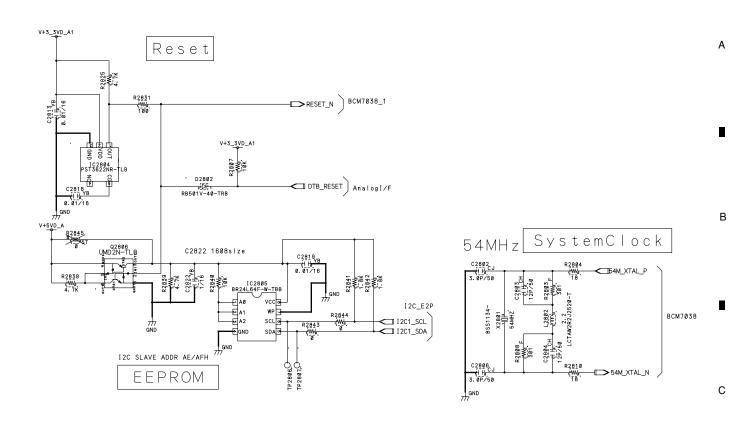
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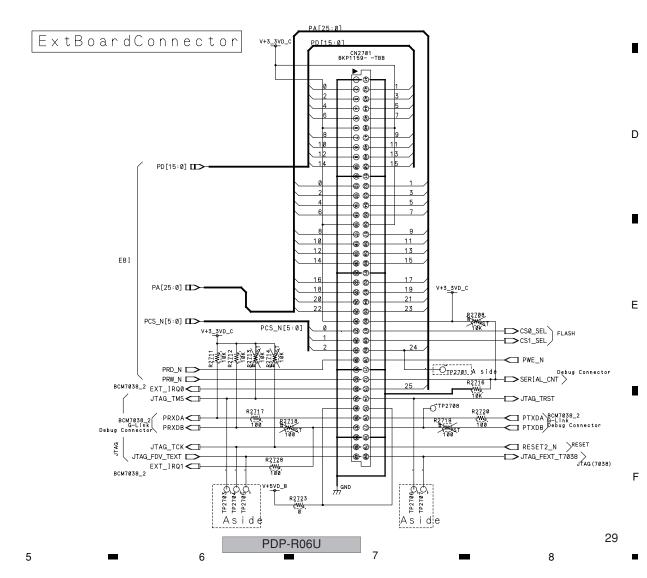
### 3.12 MR DTB ASSY (11/14)

### **MR DTB ASSY (11/14)**

• FLASH, E2P BLOCK



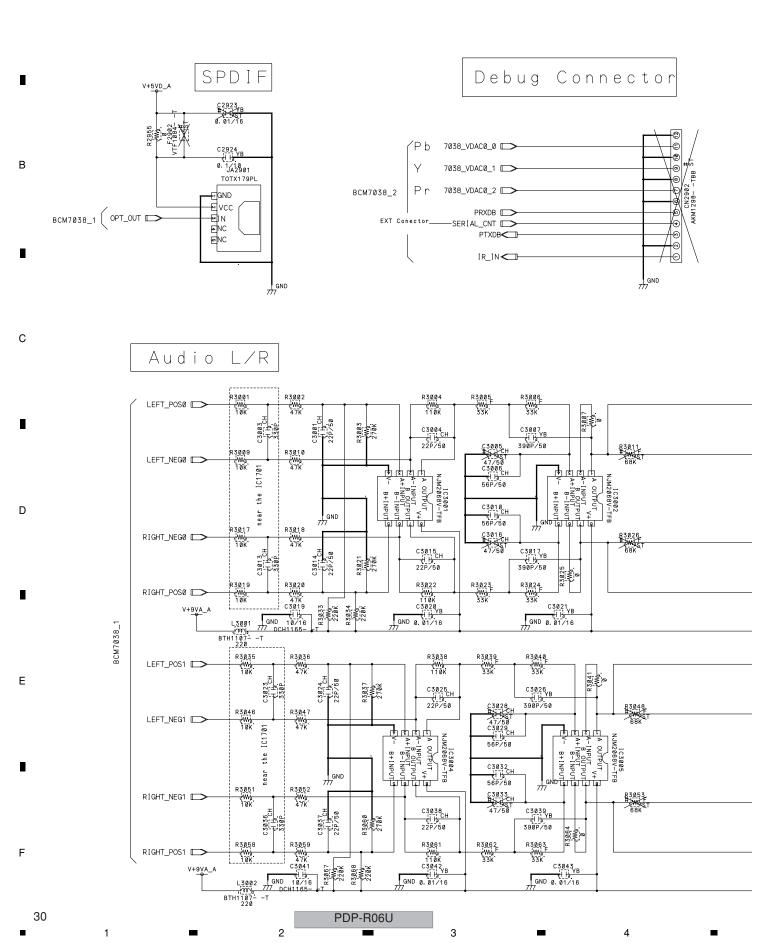


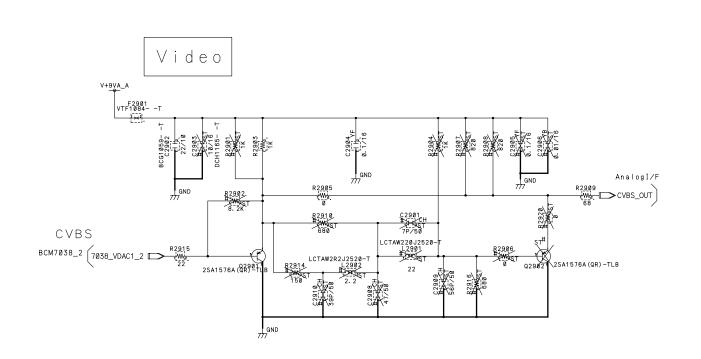


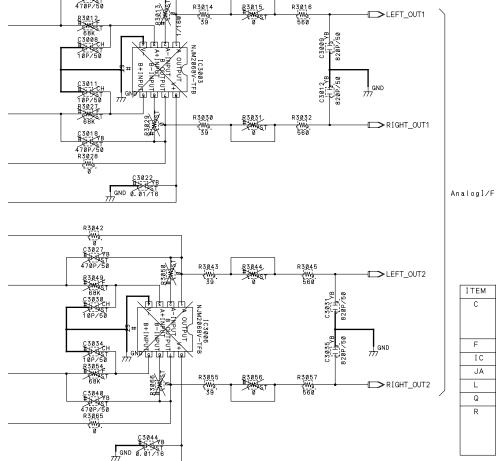
## 3.13 MR DTB ASSY (12/14)

### **MR DTB ASSY (12/14)**

A/V OUT BLOCK







ITEM	USED	VACANT
С	2902-2924 3001-3043	2903, 2905-2923 3002, 3005, 3008, 3011, 3016 3018, 3022, 3027, 3028, 3030 3033, 3034, 3040
F	2901	
IC	3001-3005	3003
JA	2901	
L	3001, 3002	
Q	2901	
R	2903-2915 2955 3001-3068	2904, 2906-2908, 2910-2914 3011-3013, 3015, 3026, 3027 3029, 3031, 3044, 3048-3050 3053, 3054, 3056, 3066

X:Don't mount

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PDP-R06U

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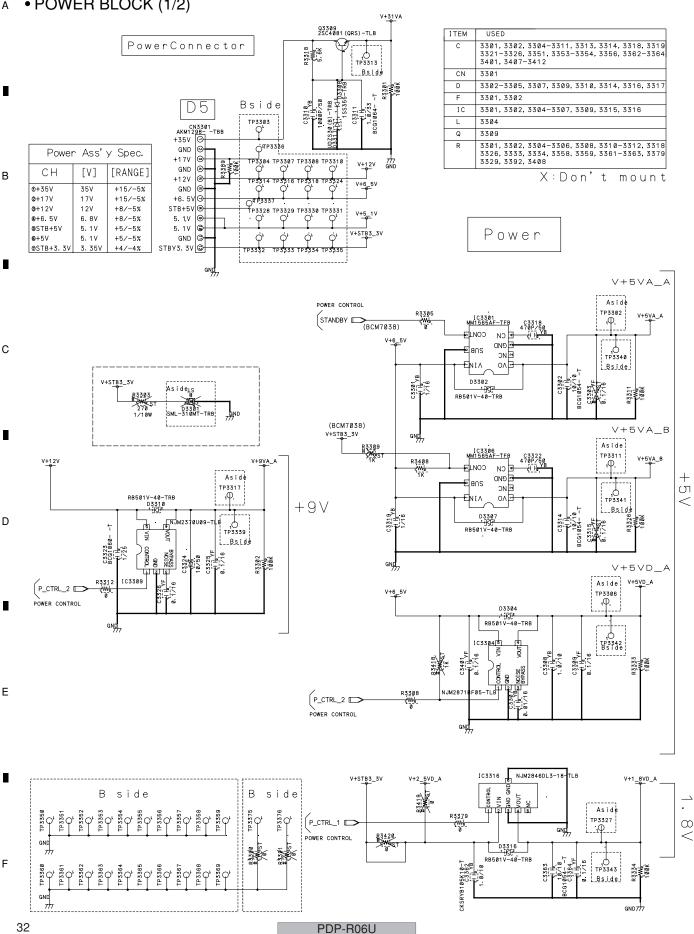
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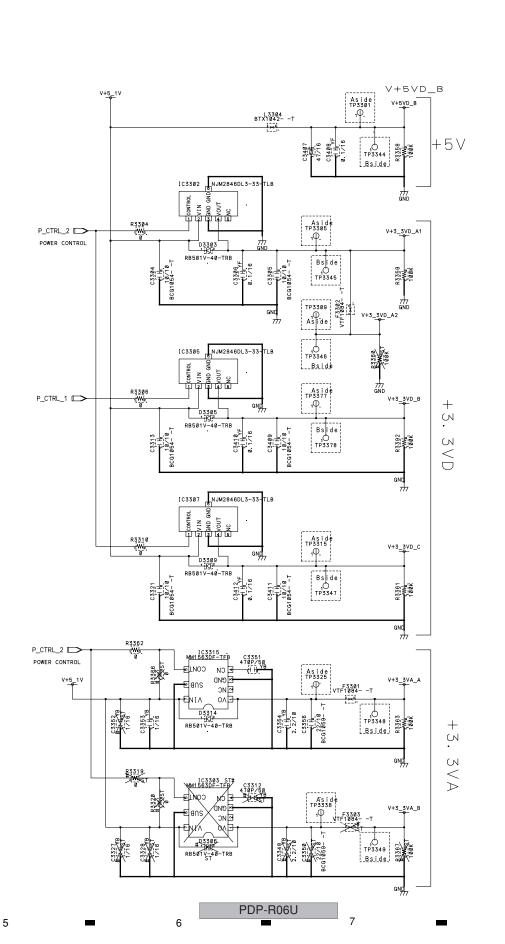
## 3.14 MR DTB ASSY (13/14)

### **MR DTB ASSY (13/14)**

• POWER BLOCK (1/2)



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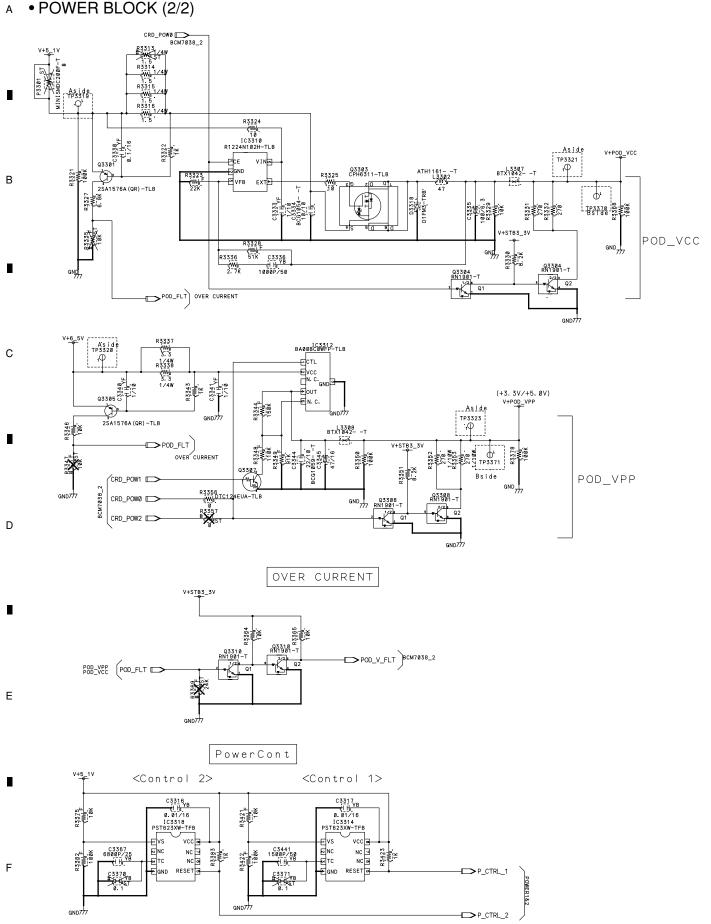
33

### 3.15 MR DTB ASSY (14/14)

#### **MR DTB ASSY (14/14)**

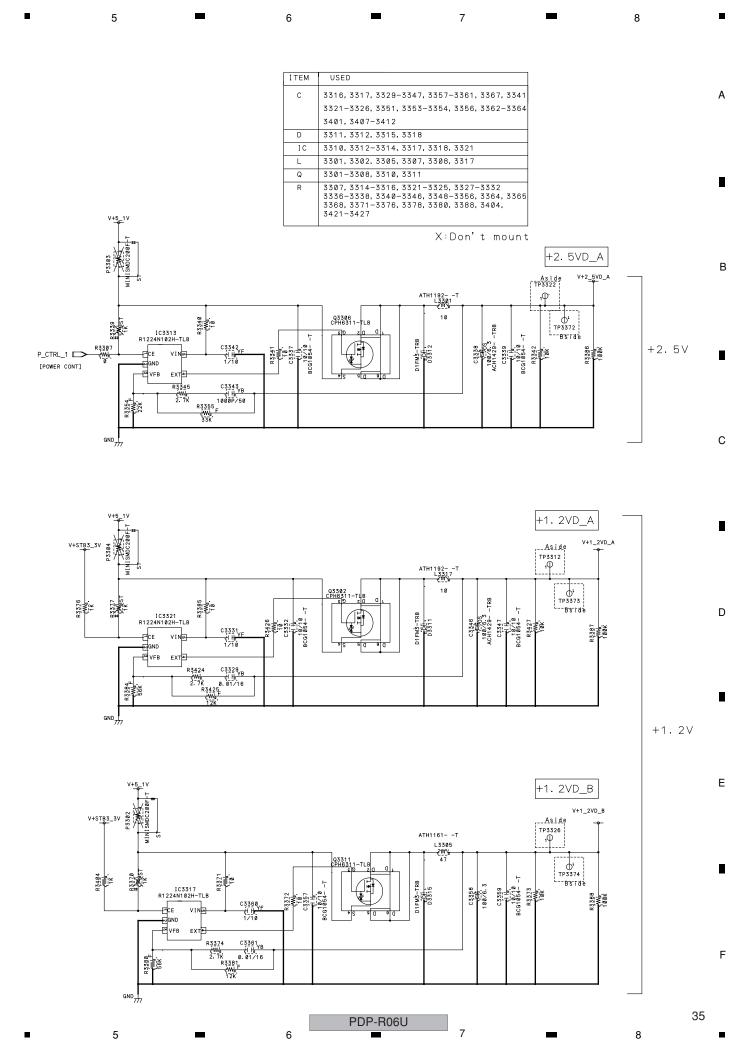
• POWER BLOCK (2/2)

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PDP-R06U

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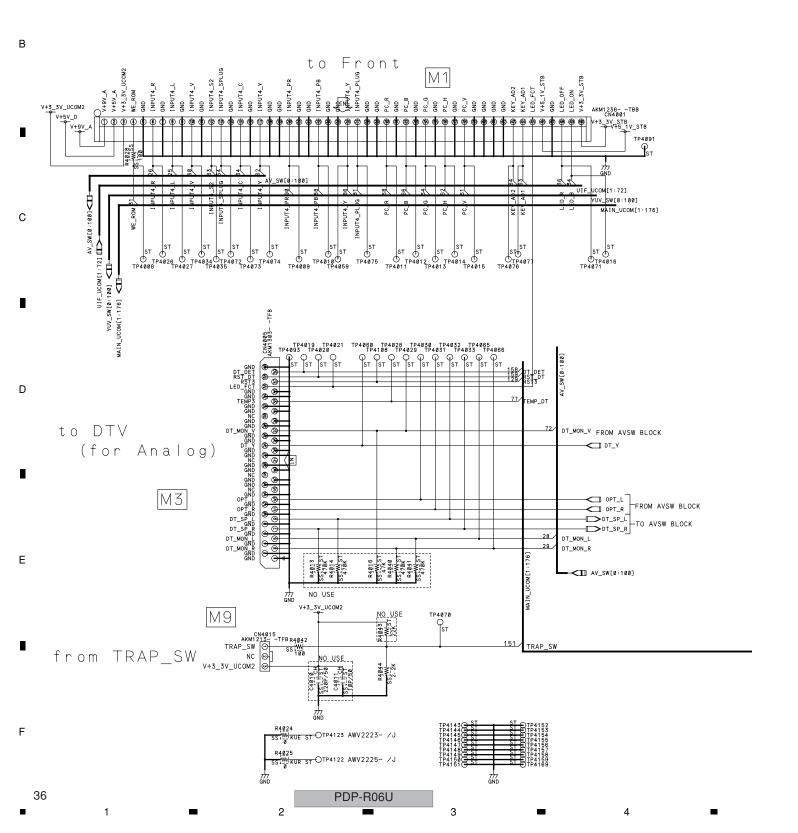
### 3.16 MR MAIN ASSY (1/16)

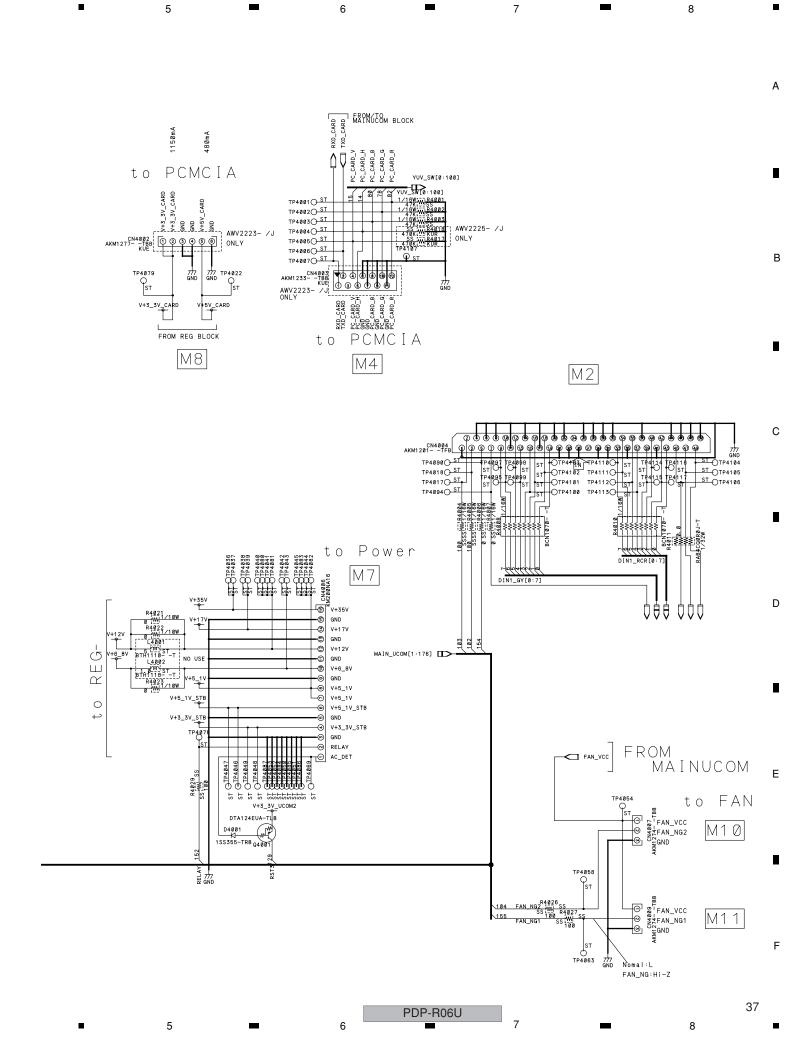
### MR MAIN ASSY (1/16)

• BOARD IF BLOCK

NO USE : STANDBY

ITEM	USED	AWV2223- /J VACANT	AWV2225- /J VACANT
С	4010-4011		
CN	4001-4015	4008, 4010-4014,	4002-4003, 4008, 4010-4014,
D	4001-4001		
L	4001-4002		
Q	4001-4001		
R	4001-4044	4009, 4012, 4015, 4017-4020, 4025, 4030-4039,	4009, 4012, 4015, 4019-4020, 4024, 4030-4039,



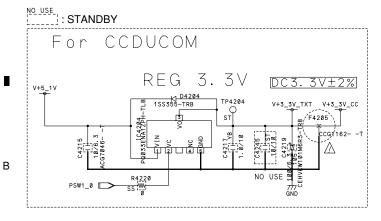


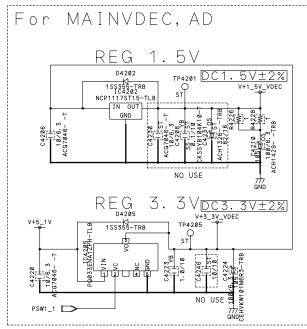
## 3.17 MR MAIN ASSY (2/16)

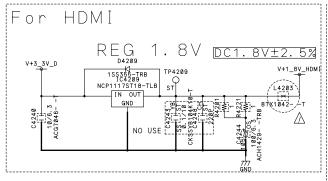
#### MR MAIN ASSY (2/16)

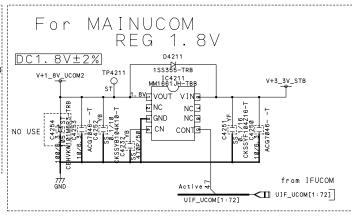
#### REG BLOCK

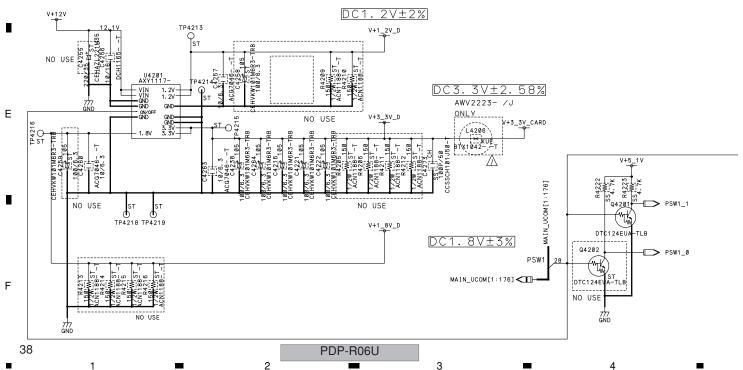
С



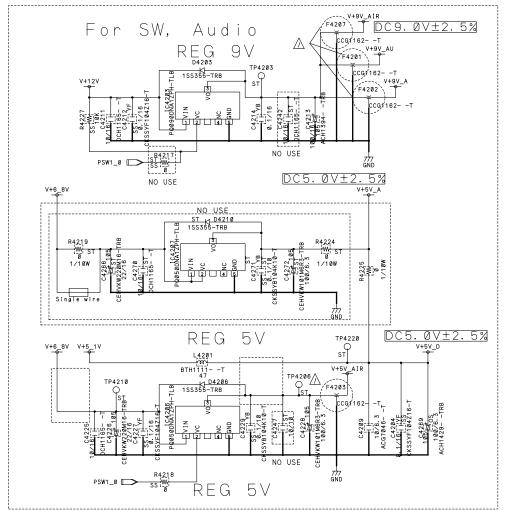


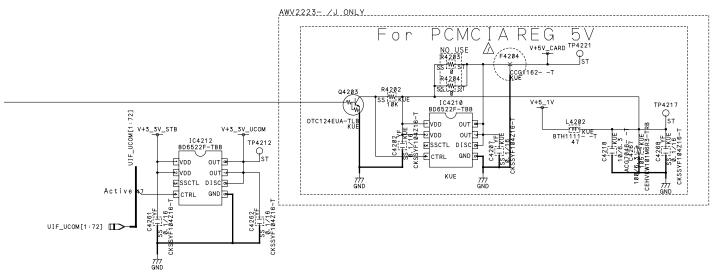






	,		
ITEM	USED	AWV2223- /J VACANT	AWV2225- /J VACANT
С	4202-4273	4203, 4205, 4233-4237, 4239, 4241, 4249, 4265,	4202, 4203, 4205, 4207, 4218, 4233-4237, 4239, 4241, 4249, 4265, 4267-4268,
D	4202-4211	4207-4208,	4207-4208,
F	4201-4207	4206,	4204, 4206,
IC	4202-4212	4208,	4208,
L	4201-4206	4204-4205,	4202, 4204-4206,
Q	4201-4203		4203,
R	4201-4228	4207-4208,	4202, 4207-4208
U	4201-4201		





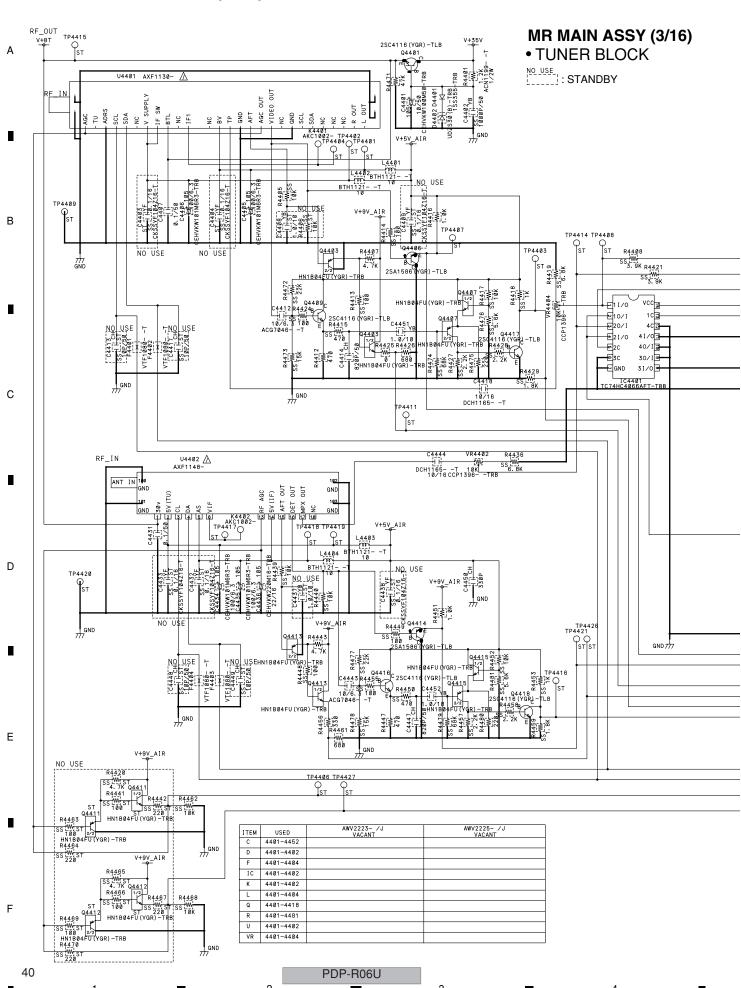
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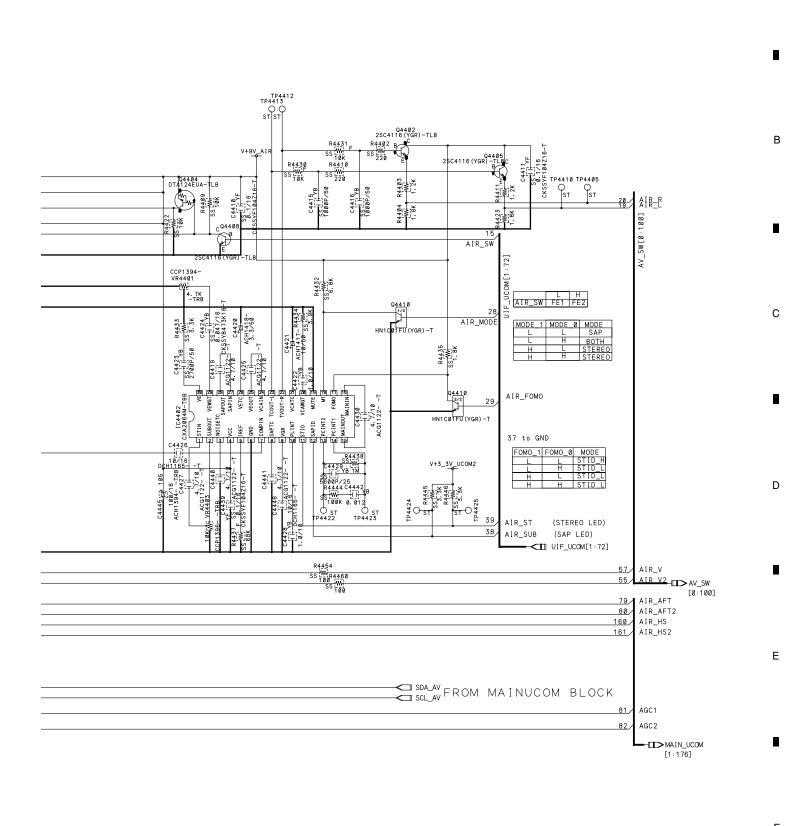
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PDP-R06U

# 3.19 MR MAIN ASSY (4/16)

## MR MAIN ASSY (4/16)

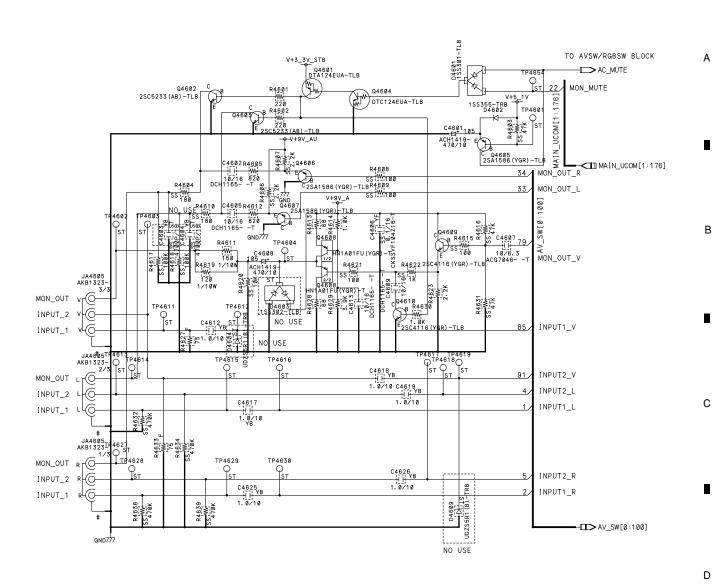
AV IO BLOCK

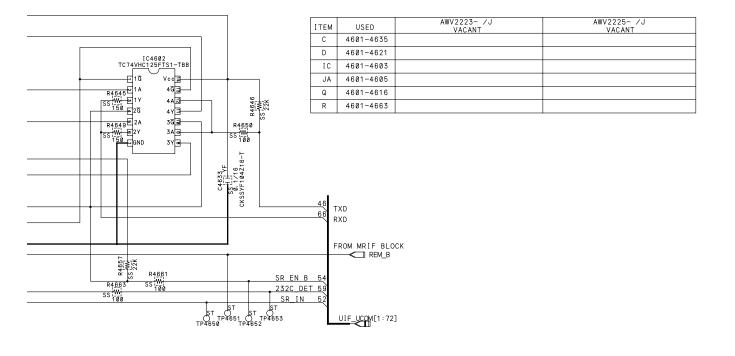
NO\_USE : STANDBY

В AWV2223- /J AWV2225-AKP1235-JA4601 AKP1234-JA4605 AKB1323-AKB1319-TP4605 TP4606 TP4607 TP4608 TP4609 TP4610 INPUT2 Y 93 95 INPUT2\_C 4624 W INPUT2\_S2 TOK SS QUDZS5R1 (B) -TRB JA4601 AKP1235-NO USE 98 INPUT2\_SPLUG INPUT\_2 TP4620 TP4621 ST C4620 YB O ST INPUT1\_Y 87 1. 0/10 C4623 R4637 SS 1 1 YB R5 WW 0. 01/16 INPUT1\_C 89 INPUT\_1 88 INPUT1\_S2 INPUT1\_SPLUG TO AV SW BLOCK -DD>AV\_SW[0:100] 7 GND TP4633 TP4632 TP4634 O O ST ST ST TP4631 R4640 SS 100 SS 100 R4642 TXD V+3\_3V\_STB | NO USE | D4613 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 12515 | 125 RS232C TP4637 C4627 VF SS 11 16 C1+
SS 11 16 CKSSYF104216-T EV+
CKSSYF104216-T C46330 C1CKSSYF104216-T C46330 C1CKSSYF104216-T C46330 C1-4t O ST 99999 Q ST CKSSYF104Z16 CKSSYF104Z16 C4632 C4632 CHVKW100M16-105 • • • • TP4638 оо∪тБ C4631 \_\_\_sт RIN1□ CN4602 AKP1213 ROUT1□ DIN13 SS 1 1 YF 0, 1/16 CKSSYF104Z16-T D4616 D4617
| D351 | D3515 | D7515 | D DOUT2 DIN2 RIN2 ROUT2 TP4640 TP4642 TP4643 TP4643 ST ST JA4603 AKN1073-TXD SR4 IST IC4603 TC74VHC00FTS1-TBB SR\_OUT \\ TP4645 RXD\_SR49st (₩<u>₩</u>) TP4648 TP4649 OTC124EUA-TLB SR\_IN D4621 1SS355-TRB TP4655 TP4656 TP4657 ST ST ST 3. 3V SR GND PDP-R06U 42

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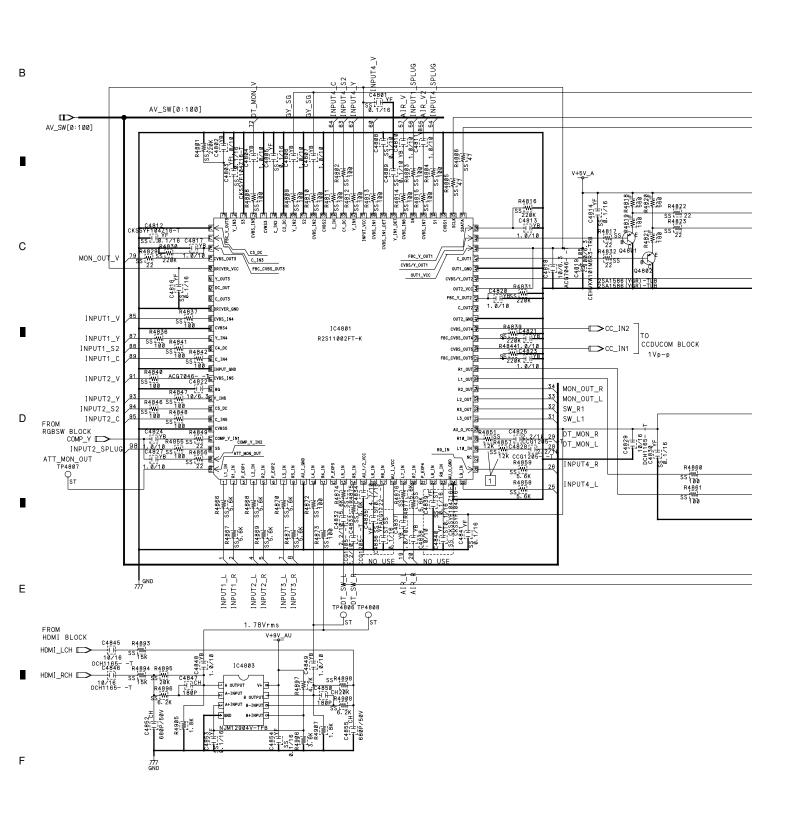
PDP-R06U

# 3.20 MR MAIN ASSY (5/16)

## MR MAIN ASSY (5/16)

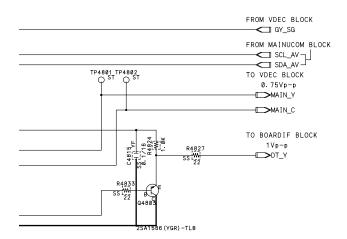
AV SW BLOCK

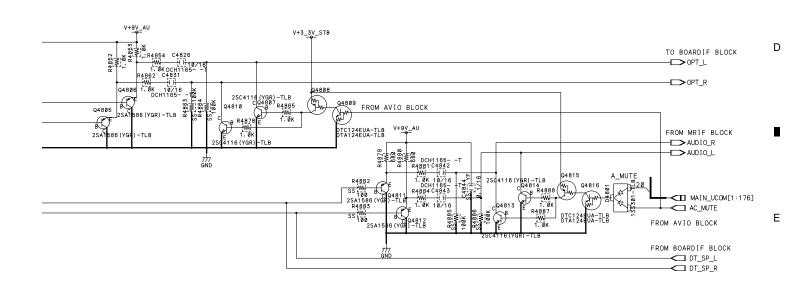
NO\_USE : STANDBY



PDP-R06U

ITEM	USED	AWV2223- /J VACANT	AWV2225- /J VACANT
С	4801-4855	4851,	4851,
D	4801-4801		
I C	4801-4803	4802,	4802,
Q	4801-4816	4804,	4804,
R	4801-4908	4807, 4825-4826, 4828, 4834-4835, 4838, 4843, 4845, 4850, 4889-4892, 4899-4904,	4807, 4825-4826, 4828, 4834-4835, 4838, 4843, 4845, 4850, 4889-4892, 4899-4904,





45

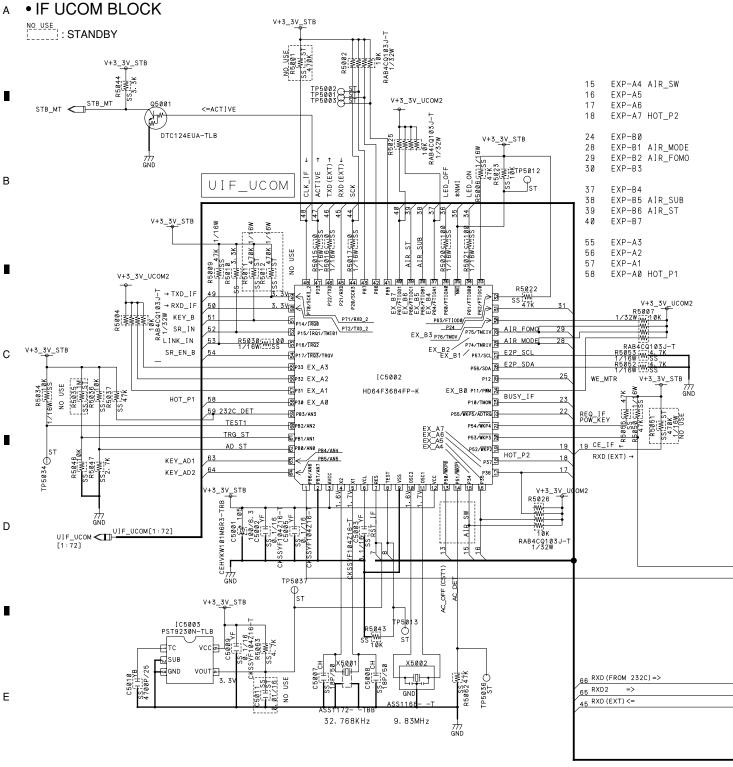
8

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PDP-R06U

# MR MAIN ASSY (6/16)

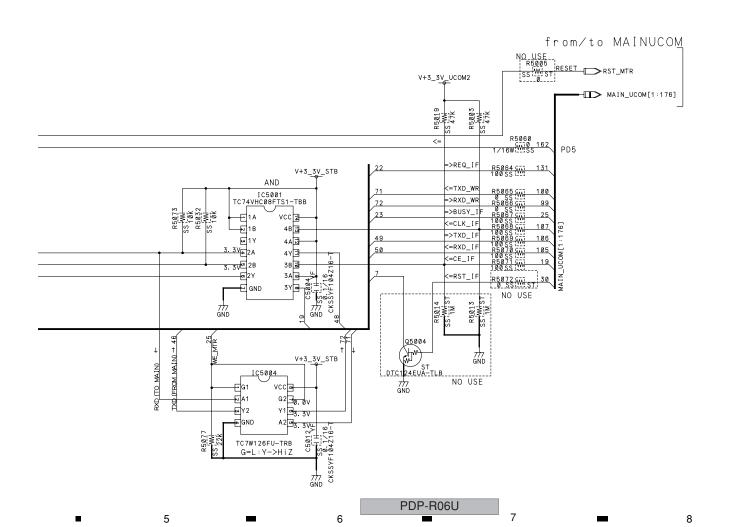


46

PDP-R06U

ITEM	USED	AWV2223- /J VACANT	AWV2225- /J VACANT
С	5001-5012	5006,	5006,
IC	5001-5004		
Q	5001-5004	5002-5003,	5002-5003,
R	5001-5077	5008, 5018, 5024, 5027-5029, 5031, 5033, 5038-5042, 5045, 5048-5049, 5054, 5056-5059, 5061, 5074-5076,	5008,5018,5024,5027-5029,5031,5033, 5038-5042,5045,5048-5049,5054, 5056-5059,5061,5074-5076,
X	5001-5002		

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47

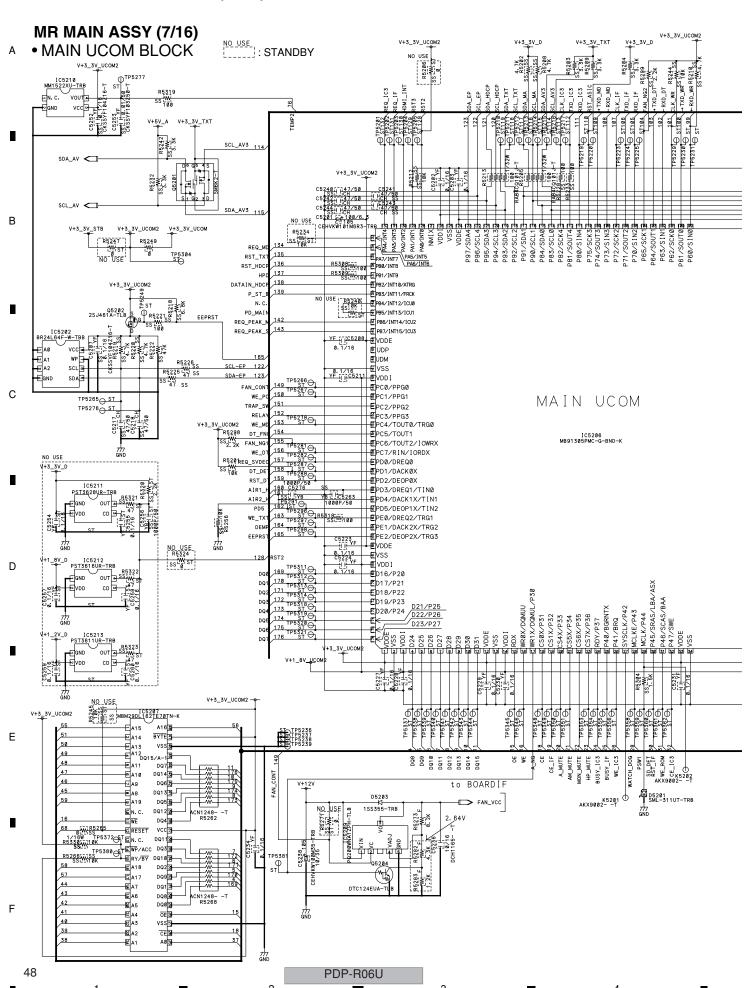
8

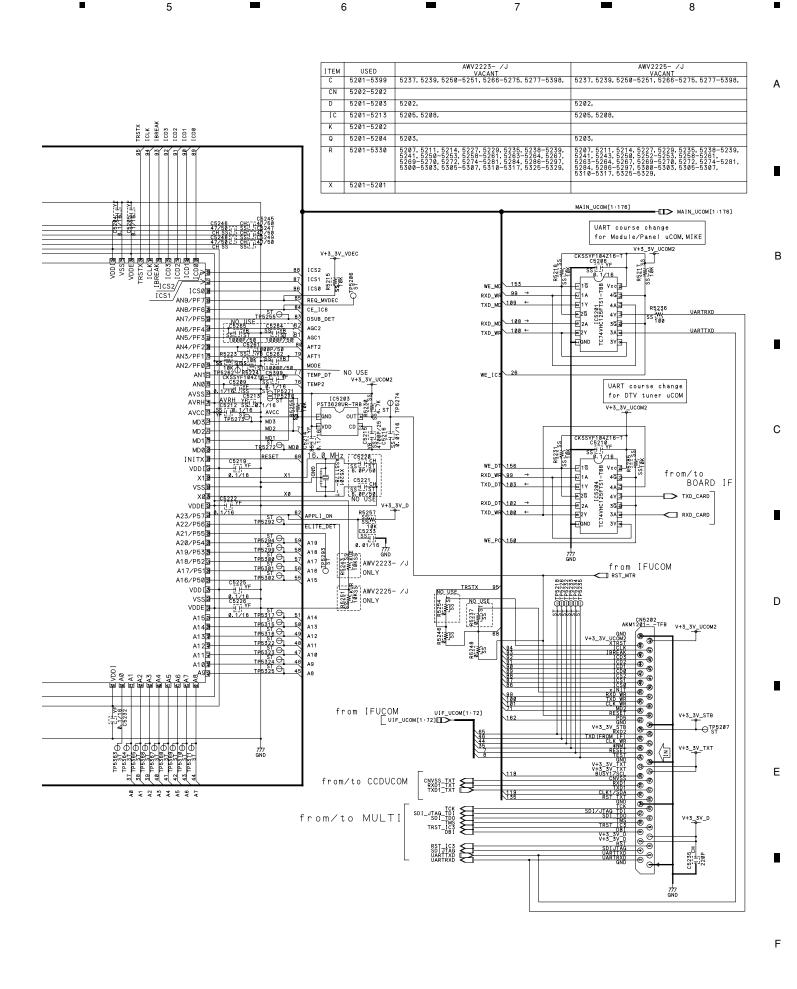
В

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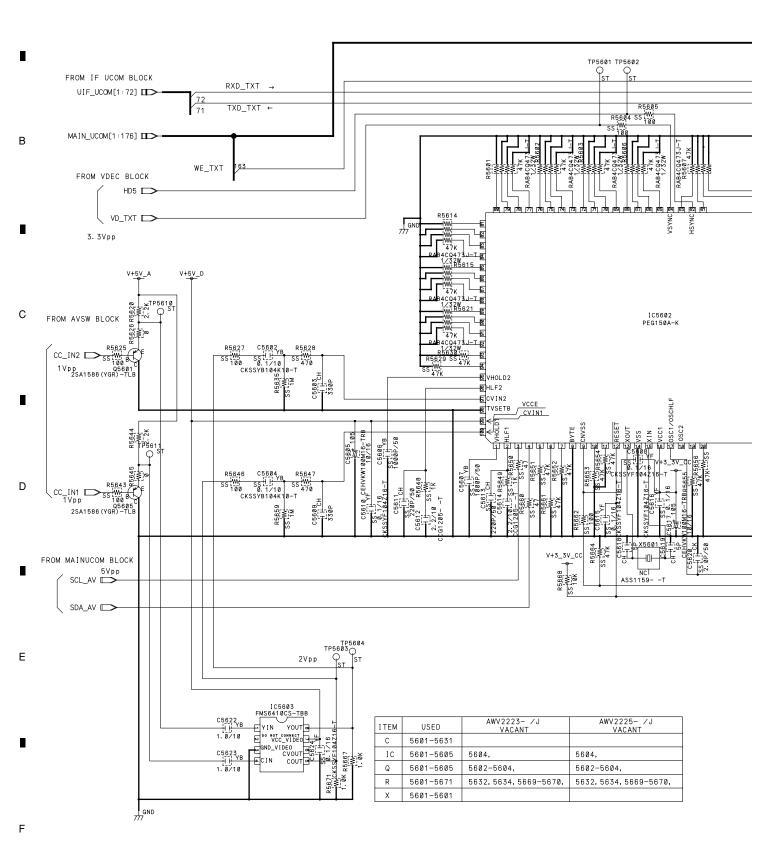
PDP-R06U

## 3.23 MR MAIN ASSY (8/16)

## MR MAIN ASSY (8/16)

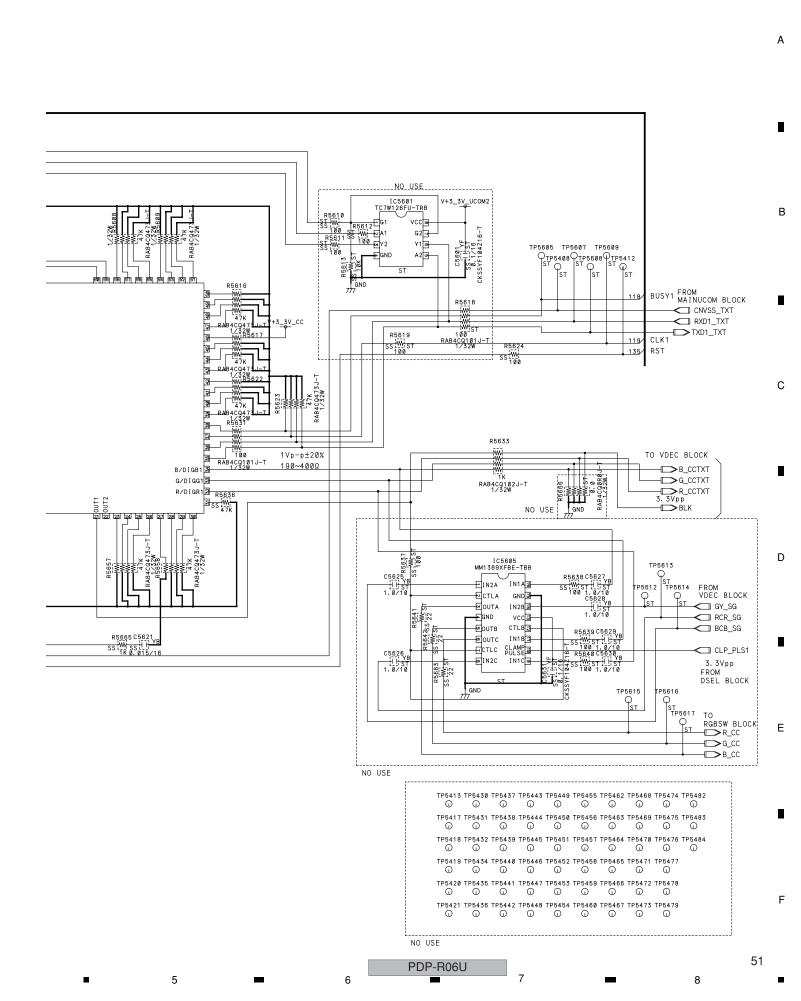
• CCD UCOM BLOCK

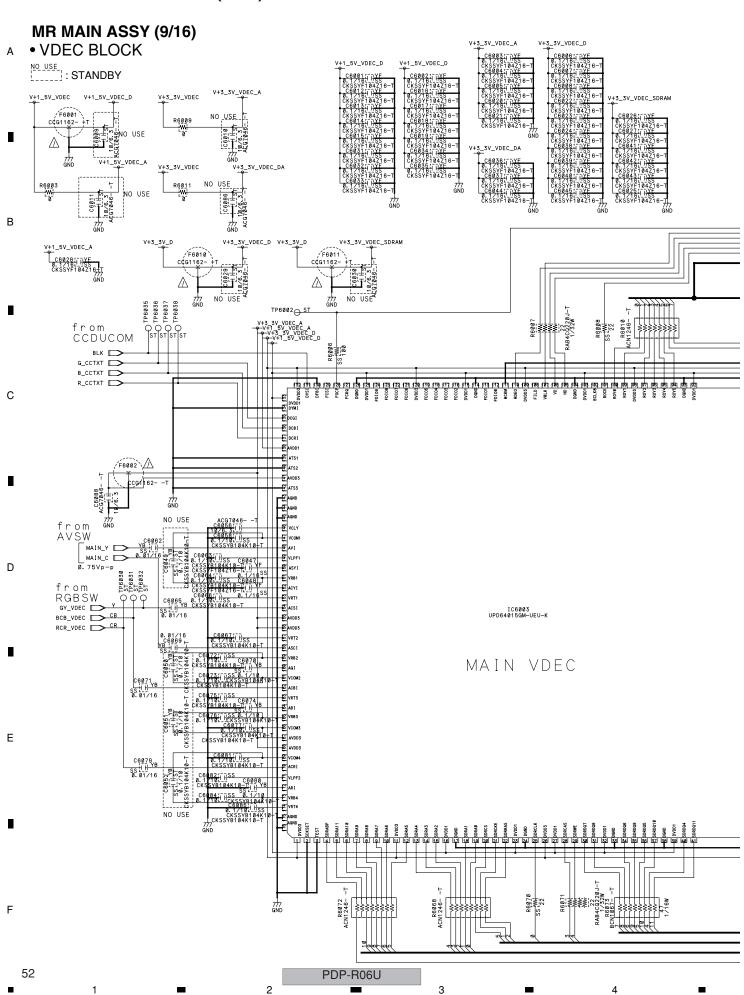
NO\_USE : STANDBY

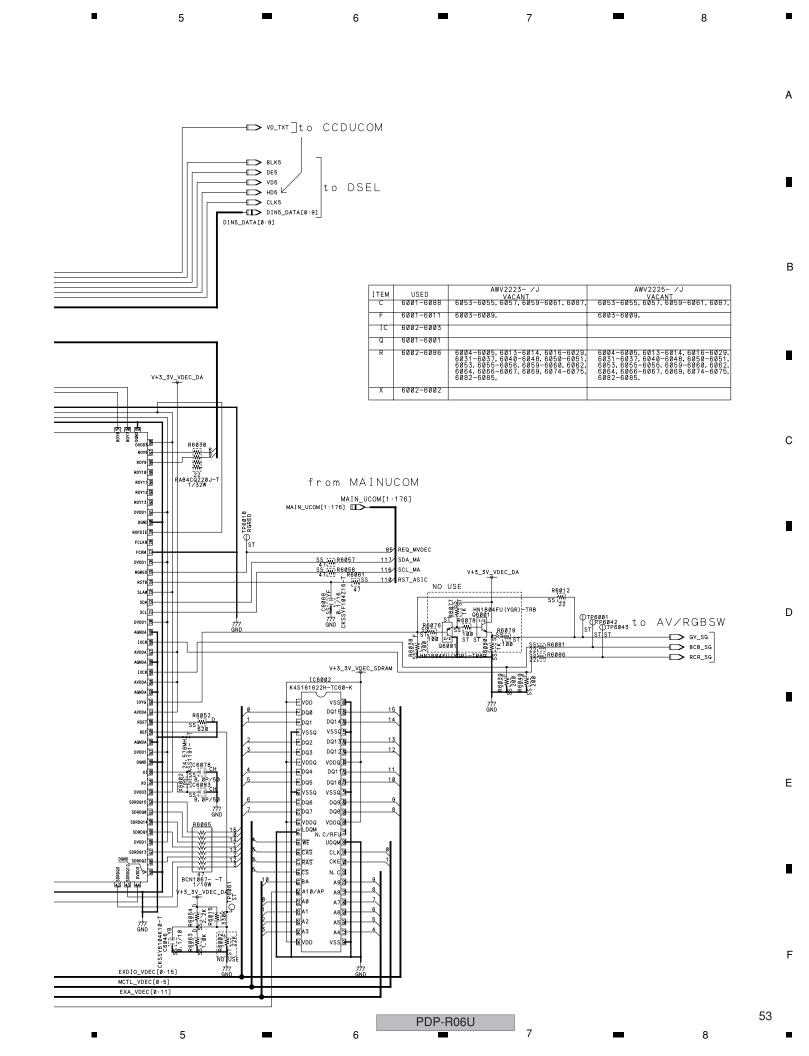


50

PDP-R06U



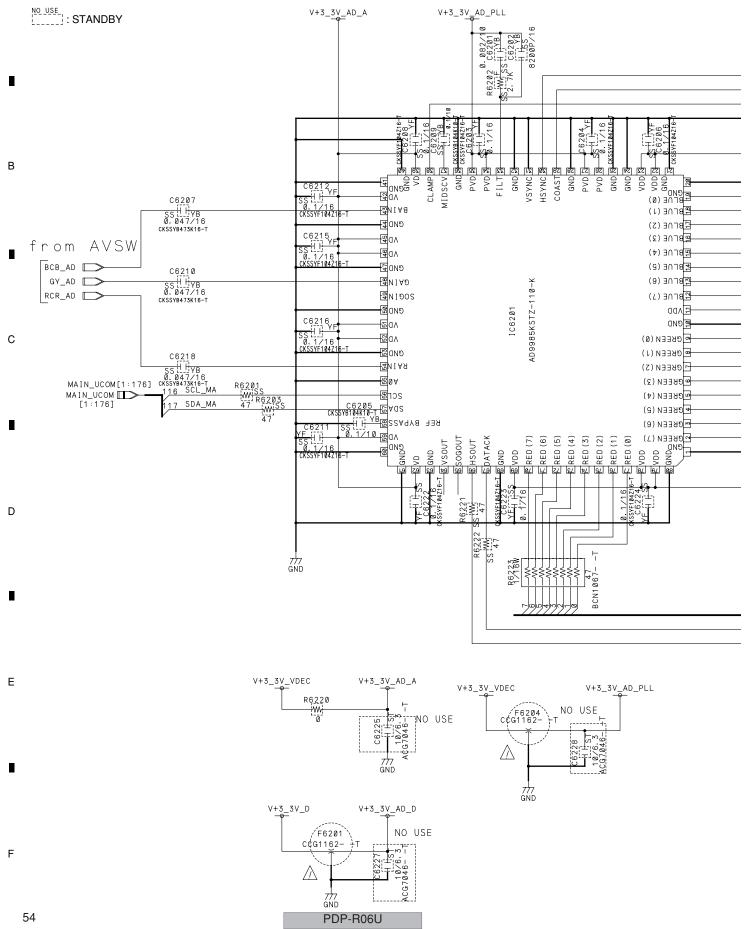


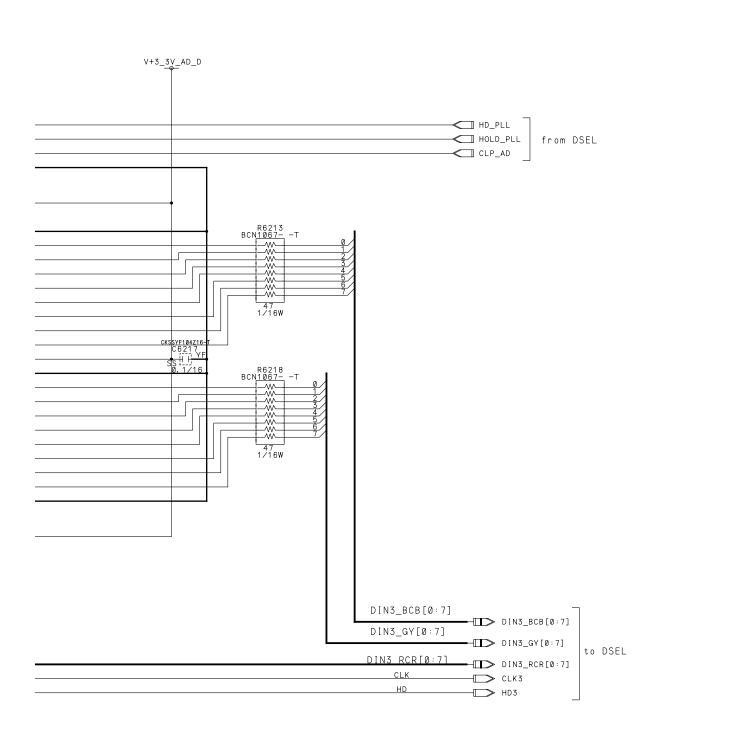


# 3.25 MR MAIN ASSY (10/16)

## **MR MAIN ASSY (10/16)**

ADC BLOCK





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ITEM	USED	AWV2223- /J VACANT	AWV2225- /J VACANT
С	6201-6228	6213-6214, 6219-6221, 6226,	6213-6214, 6219-6221, 6226,
F	6201-6204	6202-6203,	6202-6203,
IC	6201-6201		
R	6201-6223	6204-6212, 6214-6217, 6219,	6204-6212, 6214-6217, 6219,

55

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В

С

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PDP-R06U

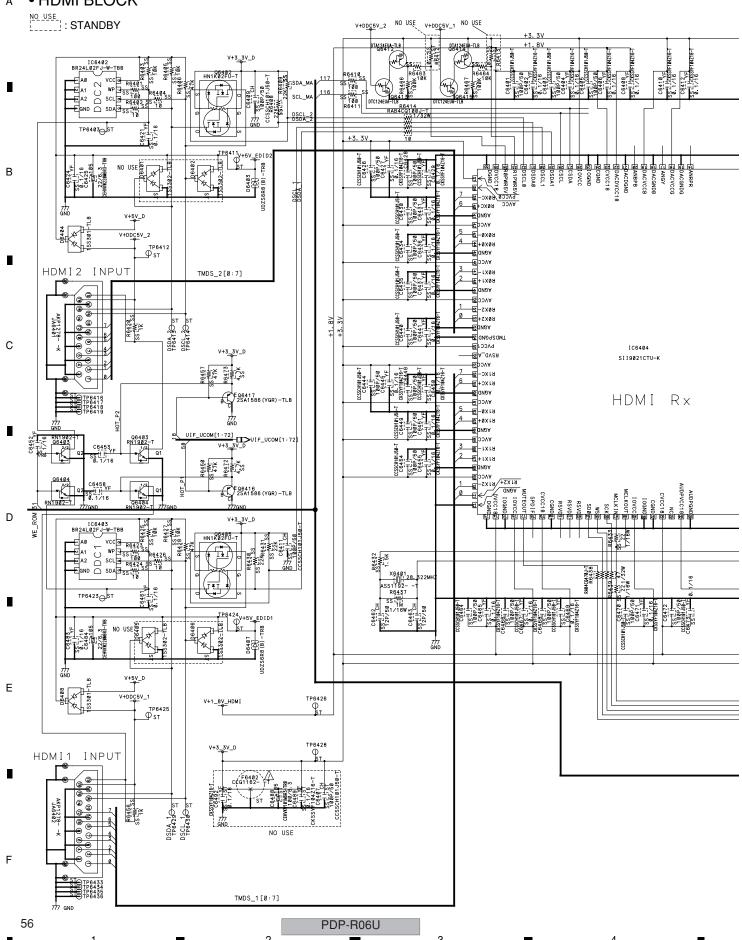
-

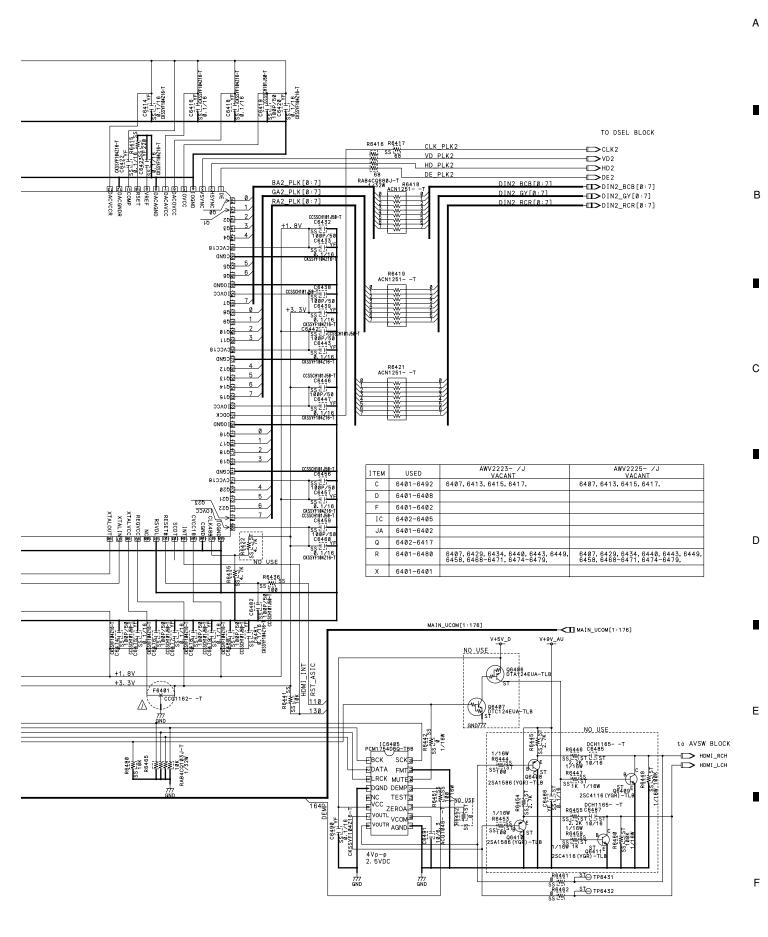
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# 3.26 MR MAIN ASSY (11/16)

#### **MR MAIN ASSY (11/16)**

HDMI BLOCK



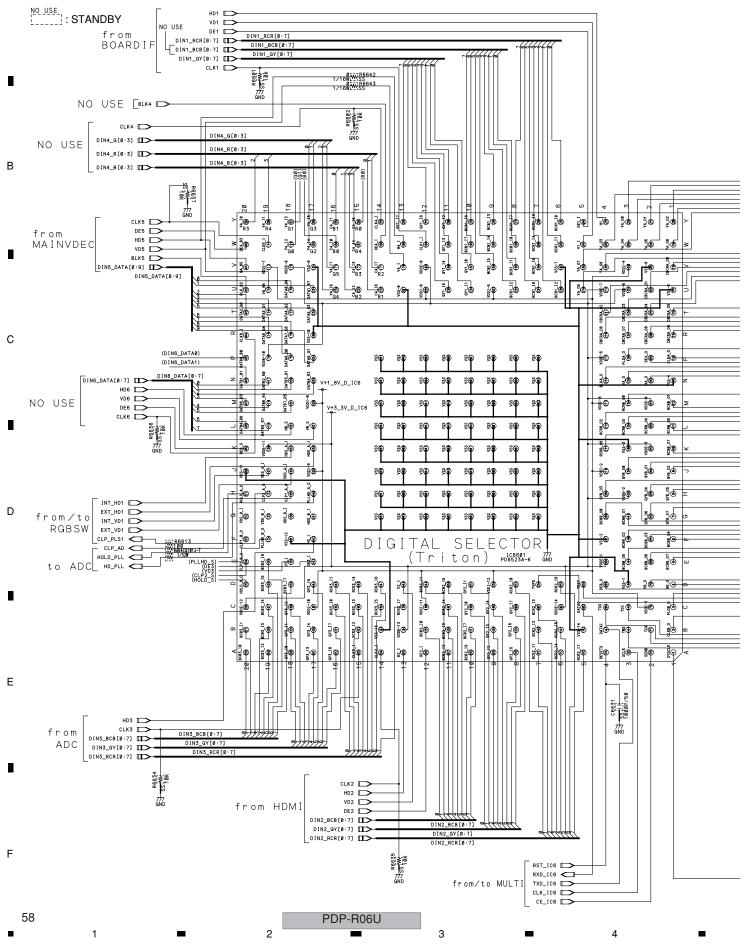


PDP-R06U

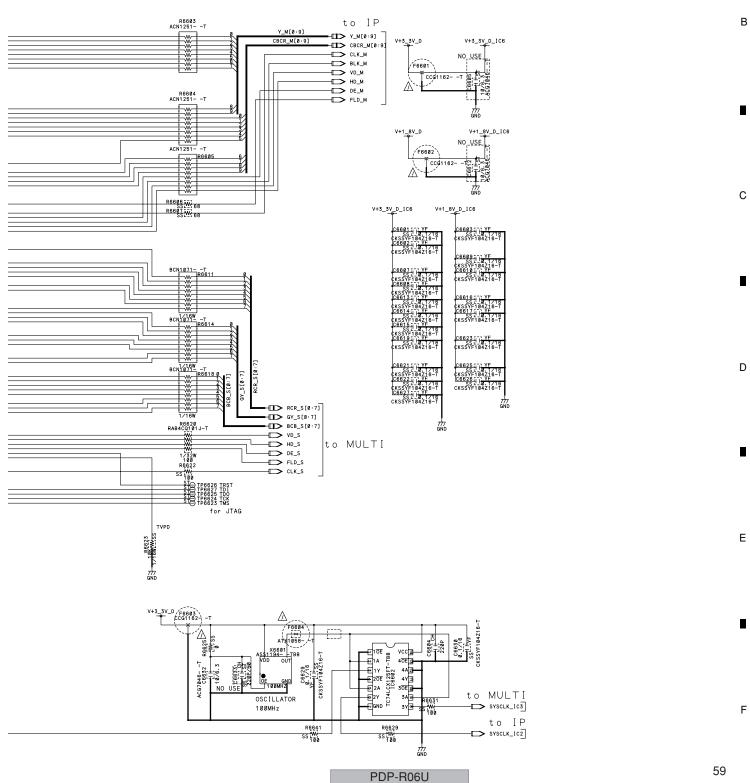
# 3.27 MR MAIN ASSY (12/16)

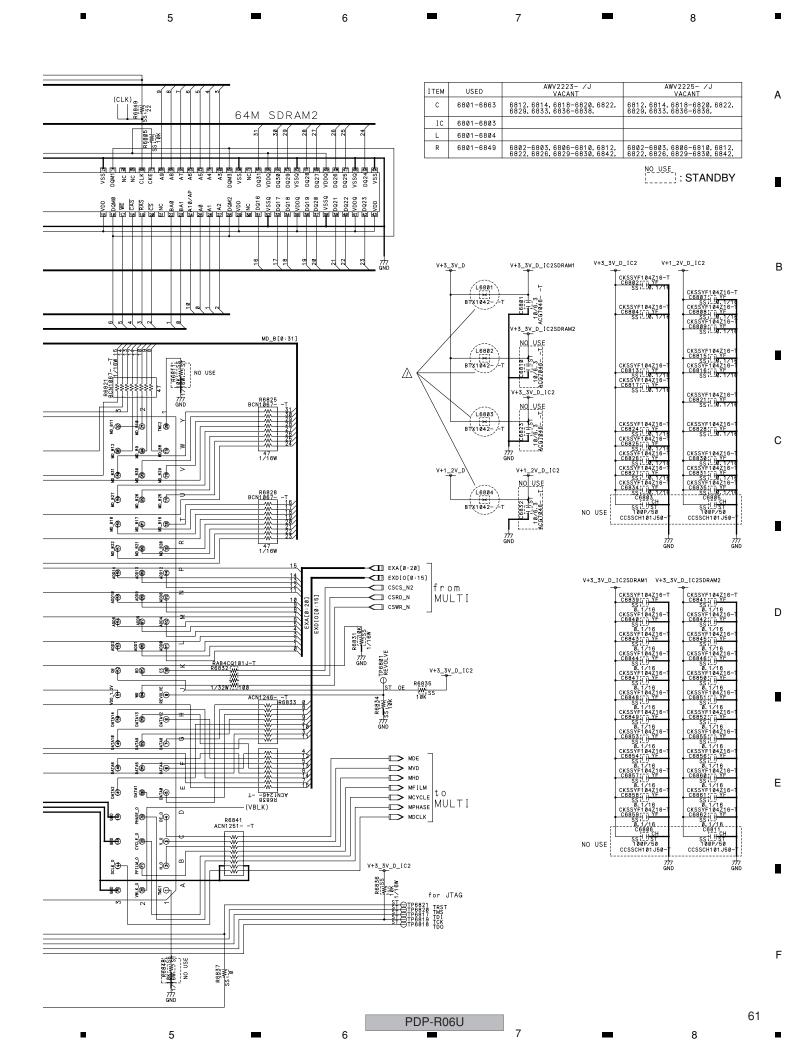
#### **MR MAIN ASSY (12/16)**

DSEL BLOCK



ITEM	USED	AWV2223- /J VACANT	AWV2225- /J VACANT
С	6601-6633	6606, 6611, 6618, 6620, 6624, 6628,	6606, 6611, 6618, 6620, 6624, 6628,
F	6601-6603		
IC	6601-6602		
R	6601-6643	6608-6610, 6612, 6615-6617, 6619, 6621, 6624, 6626-6627, 6630, 6632-6633, 6638-6640,	6608-6610, 6612, 6615-6617, 6619, 6621, 6624, 6626-6627, 6630, 6632-6633, 6638-6640,
X	6601-6601		

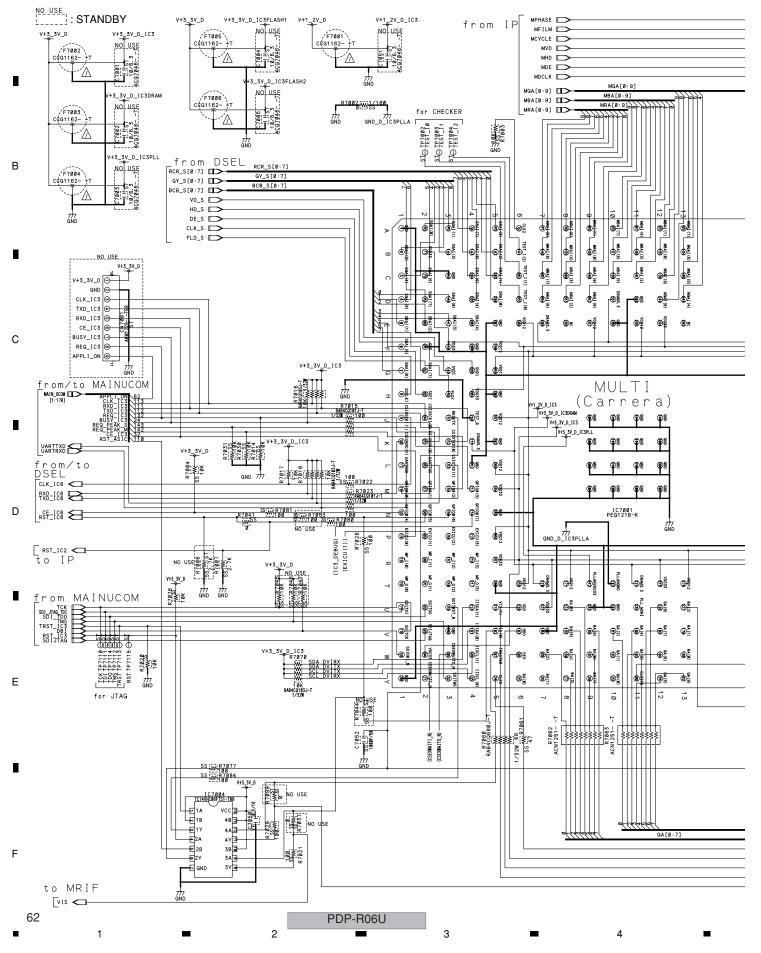


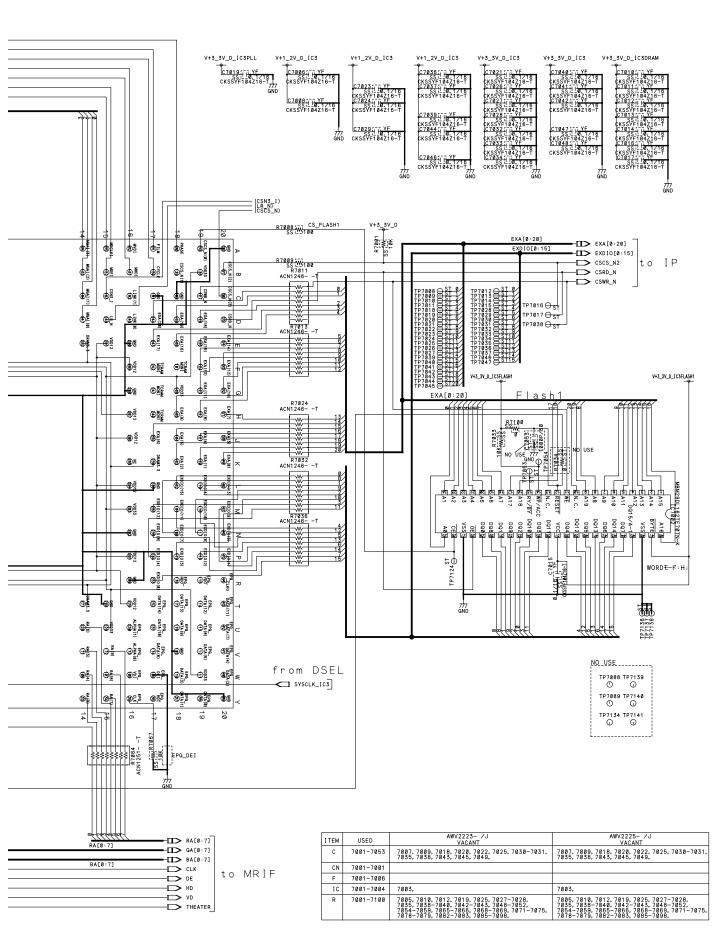


# 3.29 MR MAIN ASSY (14/16)

#### **MR MAIN ASSY (14/16)**

MULTI BLOCK





63

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PDP-R06U

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# 3.30 MR MAIN ASSY (15/16)

## **MR MAIN ASSY (15/16)**

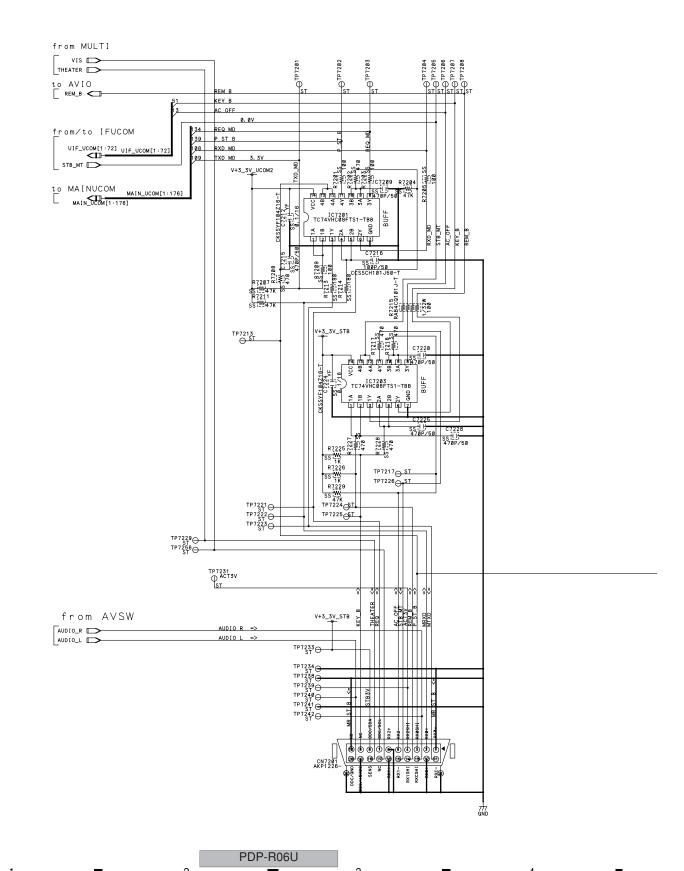
• MR IF BLOCK

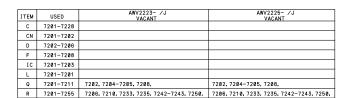
NO USE : STANDBY

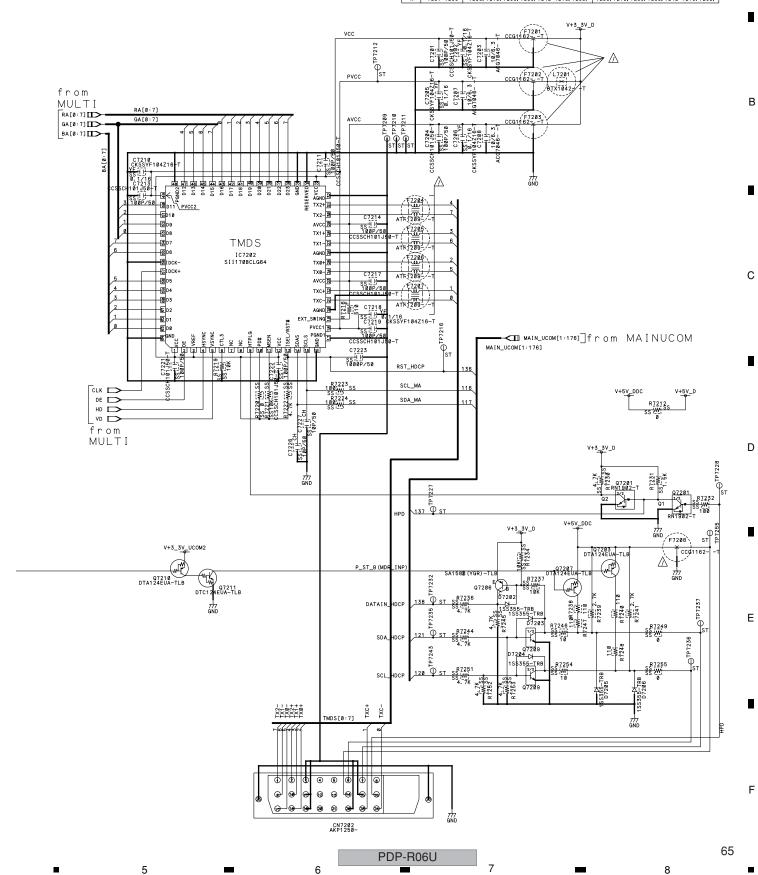
В

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64



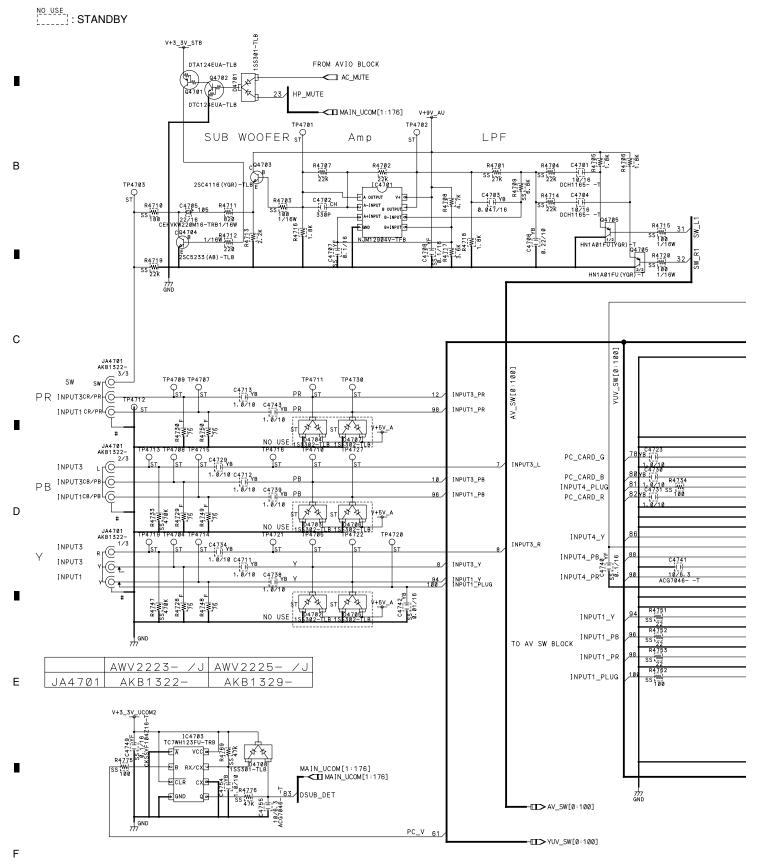




# 3.31 MR MAIN ASSY (16/16)

## **MR MAIN ASSY (16/16)**

#### RGB SW BLOCK



66

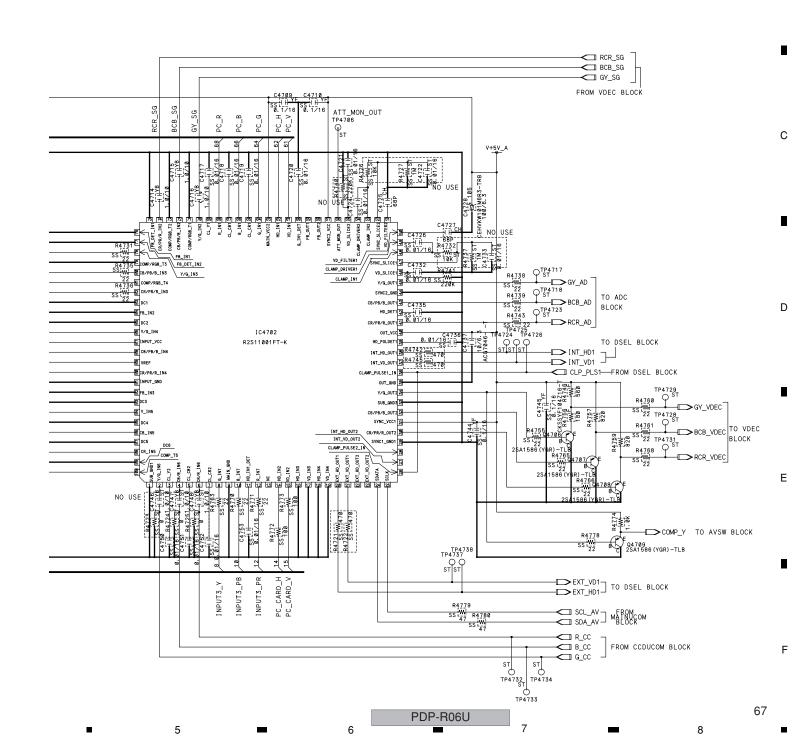
PDP-R06U

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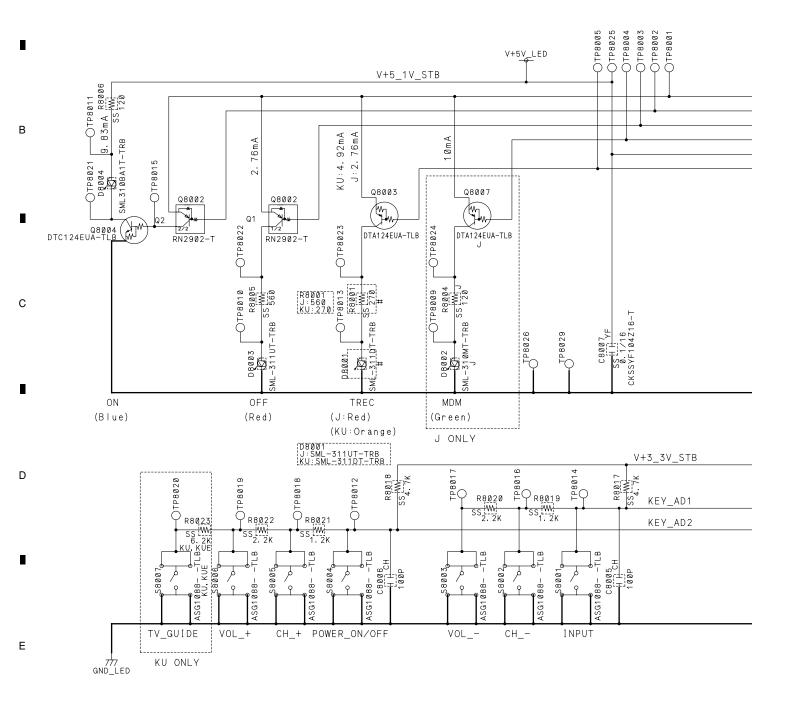
3

ITEM	USED	AWV2223- /J VACANT	AWV2225- /J VACANT
С	4701-4755		
D	4701-4708		
IC	4701-4703		
JA	4701-4701		
Q	4701-4709		
R	4701-4780	4744, 4754, 4758, 4764, 4767, 4777,	4744, 4754, 4758, 4764, 4767, 4777,

В



A LED AS



3

KEY\_AD1 voltage

Pushed KEY	Тур.	Thr.	
NO USE	3. 30		
		2. 51	
VOL	1. 39	1.70	
CH -	0.67	0.99	
INPUT	ρ	0.38	
1111 01	Ü		[V]

KEY\_AD2 voltage

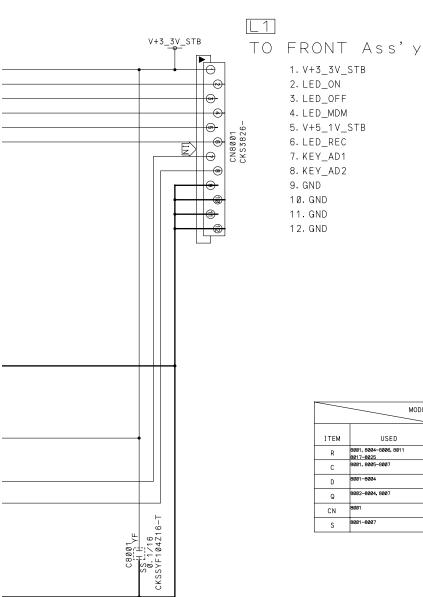
Pushed KEY	Тур.	Thr.	
NO USE	3. 30		
TV_GUIDE	2. 21	2. 51	
VOL_+	1.39	1.70	
CH_+	0.67	0.99	
POWER_ON/OFF	0	0.38	[V]

68

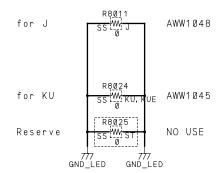
PDP-R06U

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	MODE	L PRO-RØ6U/KUCXJ PDP-RØ6U/KUCXJ	
ITEM	USED	AWV2224- (KUE) AWV2226- (KU) VACANT	AWV2228- (J) VACANT
R	8001, 8004-8006, 8011 8017-8025	8004, 8011, 8025	8023, 8024, 8025
С	8001, 8005-8007		
D	8001-8004	8002	
Q	8002-8004, 8007	8007	
CN	8001		



69

В

С

D

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F

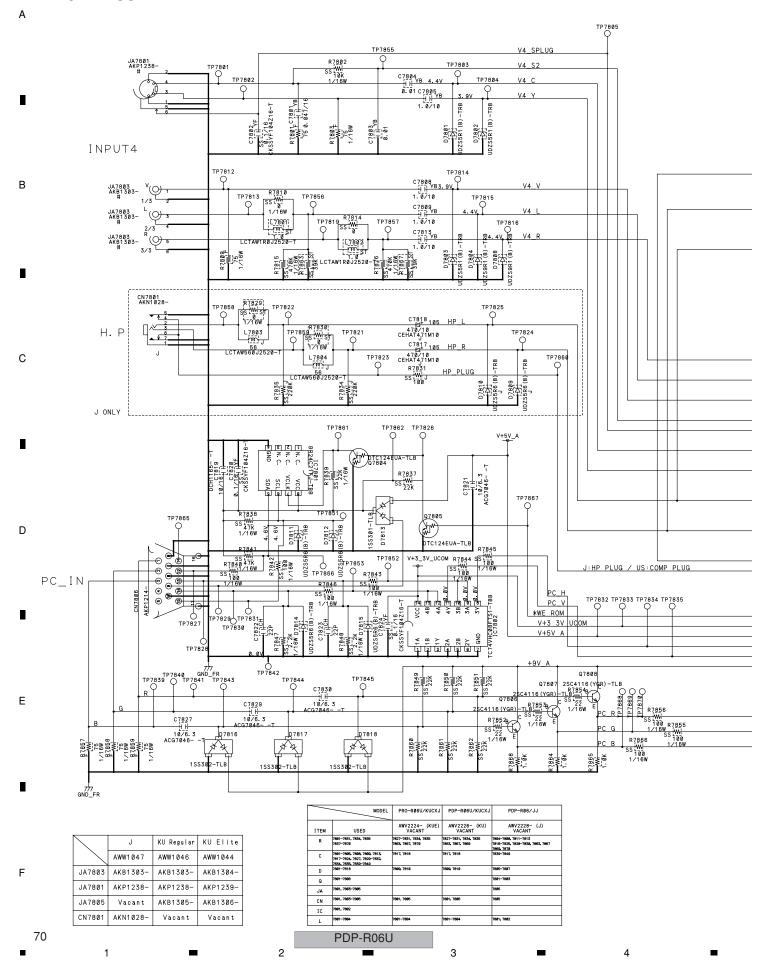
PDP-R06U

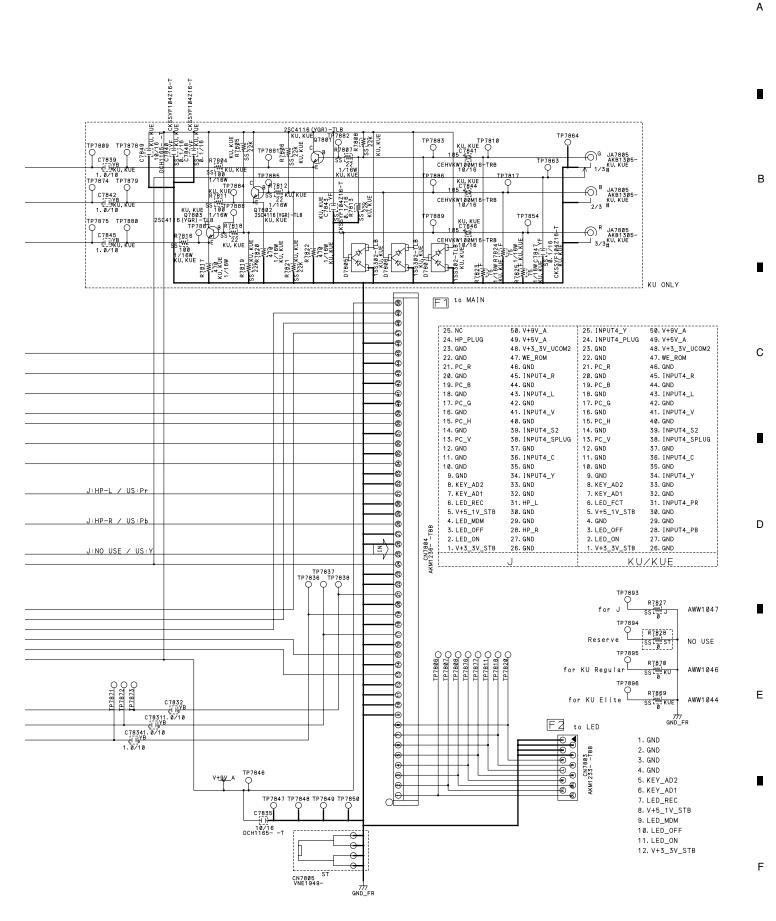
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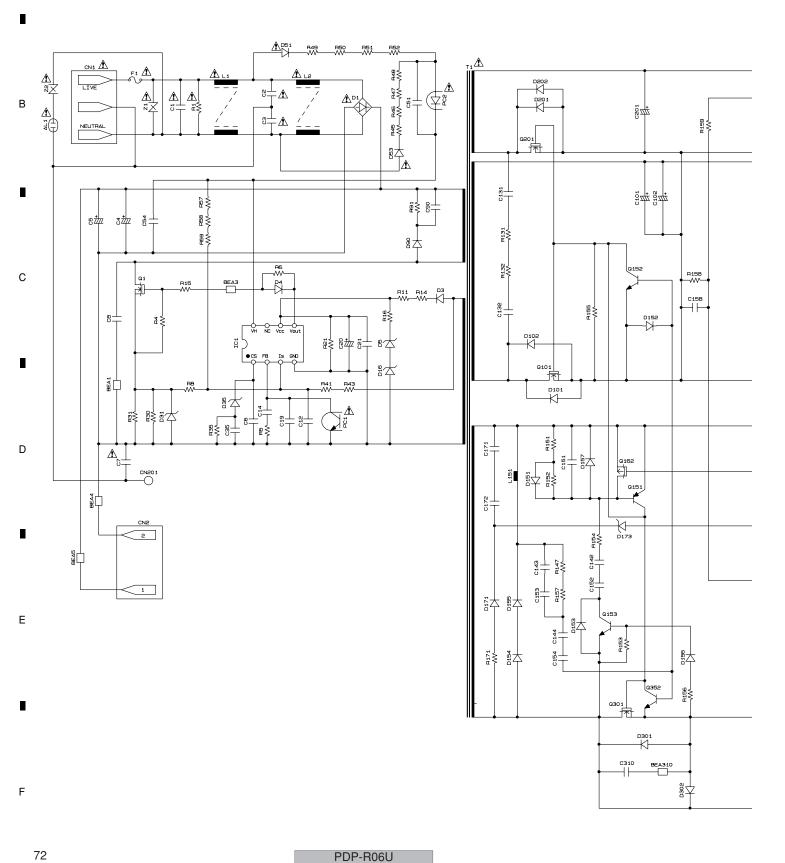
#### 3.33 FRONT ASSY

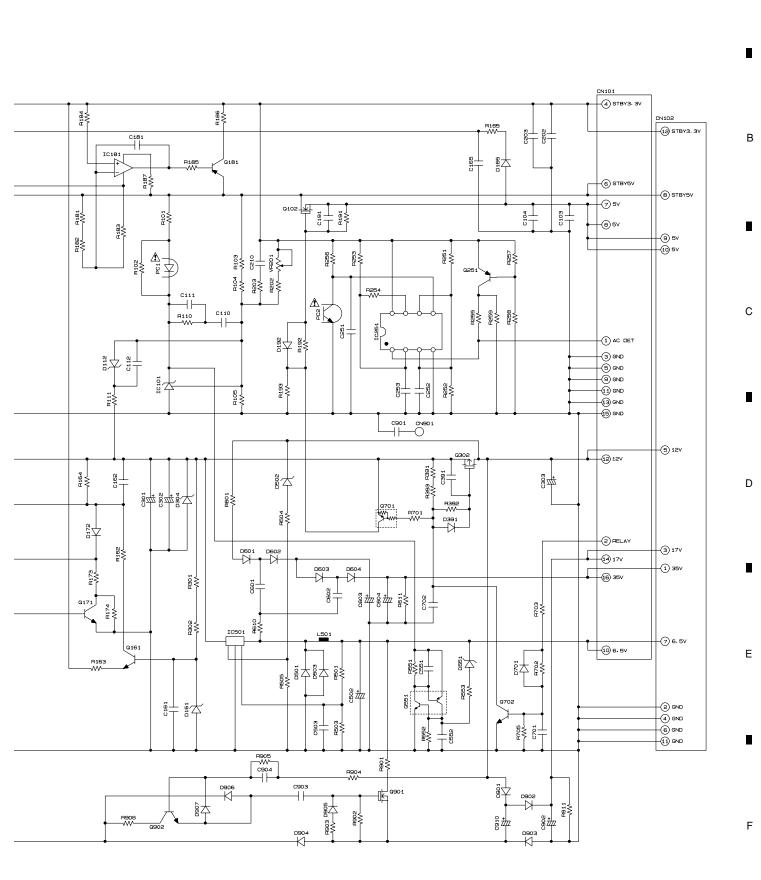
#### **FRONT ASSY**





PDP-R06U



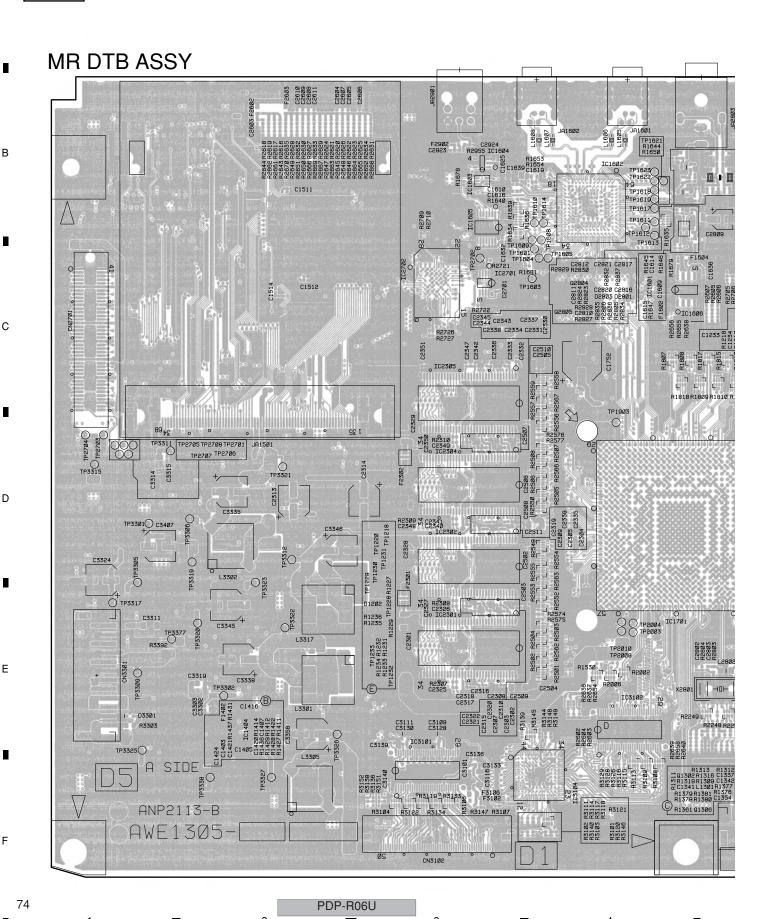


PDP-R06U

Α

# 4. PCB CONNECTION DIAGRAM 4.1 MR DTB ASSY

SIDE A





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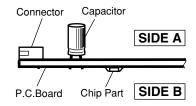
# F1102 U1001 O<sub>IC16Ø6</sub> C1128 R11114 C1Ø39 C1Ø38 TP22Ø3 ( 738 CN14B2 O IC17Ø1 o LB R14Ø1 1403 TP2213 C2211 IC14Ø3 OK SCAN FC1 FC2 65

#### **NOTE FOR PCB DIAGRAMS:**

- 1. Part numbers in PCB diagrams match those in the schematic diagrams.
- 2. A comparison between the main parts of PCB and schematic diagrams is shown below.

Symbol In PCB Diagrams	Symbol In Schematic Diagrams	Part Name
<b>© 0 0</b> B C E		Transistor
<b>© 0 0</b> B C E		Transistor with resistor
<b>© 0 0</b> D G S		Field effect transistor
<u>600</u>	*******	Resistor array
000		3-terminal regulator

- 3. The parts mounted on this PCB include all necessary parts for several destinations.
- For further information for respective destinations, be sure to check with the schematic diagram.
- 4. View point of PCB diagrams.



75

PDP-R06U

(ANP2113-B)

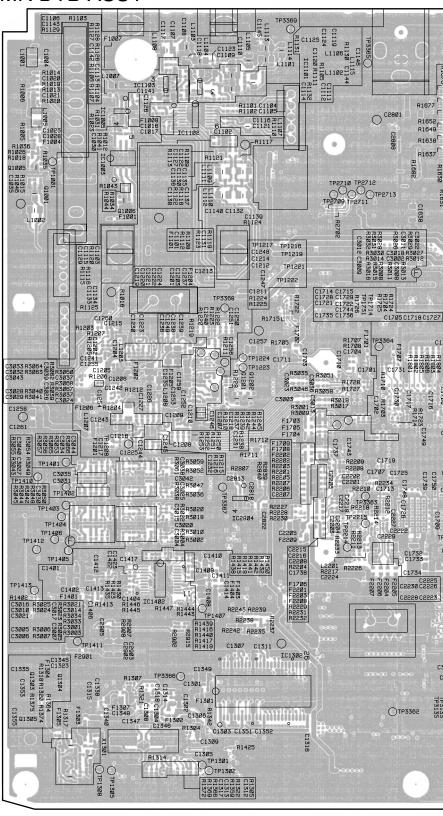
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R1361 Q1306

SIDE B

В

MR DTB ASSY



76

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PDP-R06U

SIDE B

#3546 & C5409 F5302 T175356 T17536 T17536 T17536 T17536 T17536 nz561 R2513 

(ANP2113-B)

77

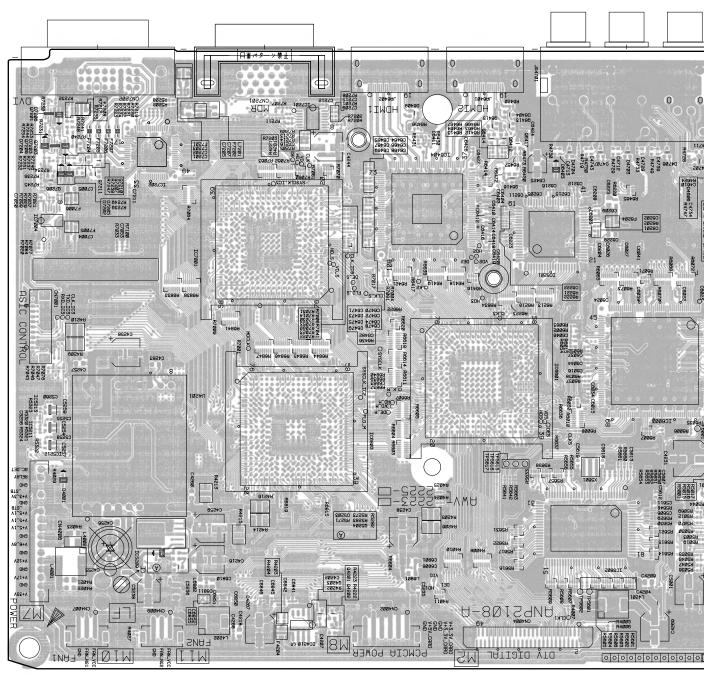
PDP-R06U

## 4.2 MR MAIN ASSY

SIDE A

В

# MR MAIN ASSY



78

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PDP-R06U

SIDE A

В

000 0 UCOM WRITING (ANP2108-A)

79

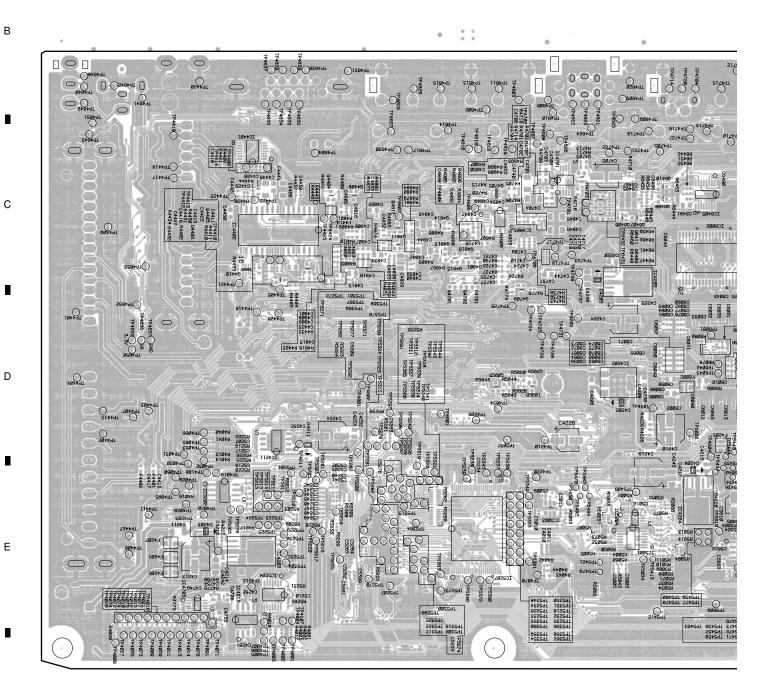
PDP-R06U

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7

SIDE B

# MR MAIN ASSY



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PDP-R06U

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SIDE B

(ANP2108-A)

81

PDP-R06U 7

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SIDE A

В

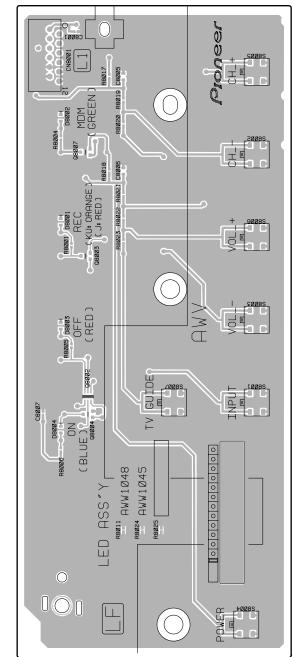
С

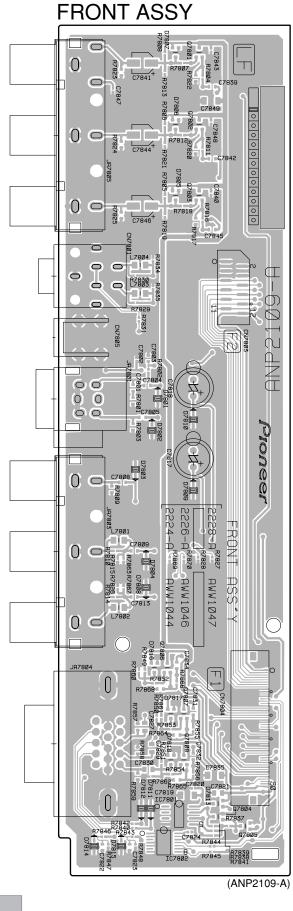
D

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SIDE A







82

F

PDP-R06U

2

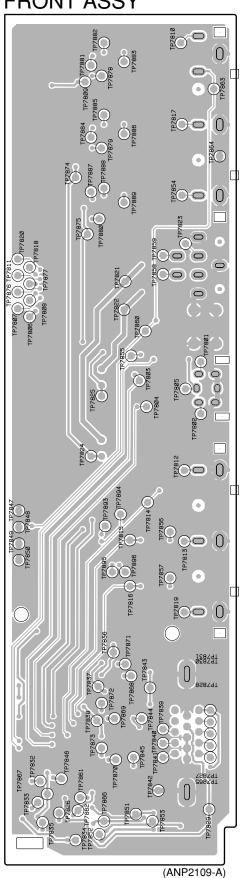
(ANP2109-A)

3

SIDE B SIDE B

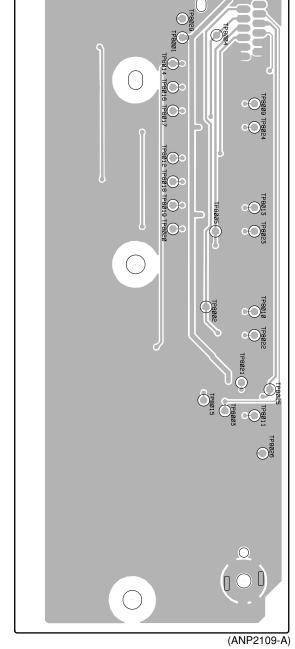
# FRONT ASSY

5



5

LED ASSY



8

В

С

D

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83

PDP-R06U